Appendix L.
Conceptual Cost Estimates

Alternatives Analysis Cost Methodology and Assumptions

The construction costs estimates based on the conceptual design presented in this appendix are order-of magnitude cost comparisons of the different design options and do not represent total costs for the project. The conceptual cost estimates are based on the various vertical options shown in Appendix B and the unit prices from the 2009 Business Plan. The cost for ROW is identified qualitatively (high, medium, or low); estimated ROW needs and costs are being developed for options in the 15% engineering design effort.

Basis of Estimate

These estimates have been prepared based on the following:

- Unit costs from 2009 business plan (2009 dollars)
- Preliminary profiles shown on the 500-scale plans included as Appendix B
- Costs broken down by major Subsections 0-9, and then by sub-subsections as depicted on the 500-scale plans
- Costs have been developed for the following options:
    - Aerial Viaduct
    - Berm (Embankment or MSE – mechanically stabilized earth)
    - At-Grade
    - Open Trench
    - Covered Trench/Tunnel
    - Deep Tunnel
- ROW costs identified qualitatively as Low, Medium or High
- System wide elements such as Traction Power, Overhead Contact System, Communications, Signaling assumed to be equal for all options
- Costs for reconfiguration of existing Caltrain stations included
- 4-track fully grade separated shared use system assumed
- Costs for HST stations at Millbrae and San Jose included
- Costs for potential Mid-Peninsula HST station not included
- Maintenance facility not included
- Temporary construction easements (TCE) not included
- Contingency of 25% is included

Definitions/Assumptions

- Aerial Viaduct – Elevated structure on columns crossing over existing streets to provide grade separated access.
- Berm – Earthen elevated berm with slopes conforming back to surrounding grade, or mechanically stabilized earth (MSE) walls. Grade separation accomplished by structures spanning the roadways.
- At-Grade – Grade separations requiring streets to go either over or under tracks that remain at existing Caltrain grade. ROW impacts account for parcels affected by changes to the roadway profile approaching the grade separation.
- Open Trench – Shallow open box bridged at street crossings and drainage channels or streams. These bridged areas would be approximately 10 feet deep in order to accommodate existing utilities.
- Covered Trench/Tunnel – Shallow covered box generally constructed from the surface down. Fire and life safety systems required. Top of the box approximately 10 feet below existing street level to minimize impacts to existing underground utilities.
- Deep Tunnel – Deep tunnel generally constructed by mining or tunnel boring machine (TBM). Large surface areas needed at the tunnel portals to facilitate construction. Fire and life safety systems required. No HST or Caltrain stations. Option only considered for 2 HST tracks, therefore to develop total cost must add cost to reconstruct Caltrain tracks to achieve the required grade separations. Deep tunnel unit cost is based on construction methodology; soil conditions will dictate actual types of construction.

The use of a vertical option in any given sub-section must be coordinated with the adjacent subsection. Transitions between vertical solutions require approximately 3,000 feet of horizontal distance; the final selected solution must be one that can be “stitched” together without excessive vertical alignment changes. The cost tables are broken down into subsections for options that cover the predominant portion of the subsection. Costs of transitions between vertical options are included within major option types. It is assumed that 4 tracks will be utilized for the entire corridor; to develop total costs for “split” solutions where HST tracks are at one level and Caltrain tracks are at another level requires adding the costs of the options to total 4 tracks. There are notes to that effect in each of the design options where this is a possibility.

These conceptual-level costs are intended to allow a comparative analysis within each subsection between the numerous vertical options that continue to be studied; a more detailed estimate will be developed with the 15% engineering design.

Subsection 0	0A (2.2 miles) Covered Trench / Tunnel	0B (2.2 miles) Covered Trench / Tunnel	0C (1.0 miles) At Grade	0D (2.3 miles) Covered Trench / Tunnel
Capital Cost (in Millions) does not include ROW	$3,000 ($YOE) (Estimate provided by the TJPA, 2010)	$3,000 ($YOE) (Estimate provided by the TJPA, 2010)	$200 ($YOE)	$3,000+ ($YOE)
Acquisition Cost of Permanent ROW	Medium	Medium	Lowest	Highest
Notes:	1. Inclusive of train box and station (in year of expenditure $) 2. Includes $100M for reconstruction of 4th & King. 3. Assumed CHSRA contribution of $1B from CHSRA 2009 Business Plan.	1. Assumed HST contribution of $1B towards the total construction costs.	1. Based on MTC SF/Silicon Investment Strategy dated June 2009. 2. Assumed costs to be doubled that of the 2 platform option.	1. Inclusive of train box and station (in year of expenditure $) 2. Includes $100M for reconstruction of 4th & King. 3. $3 billion cost based on TTC estimate for 2.2 mile tunnel and terminal.

Subsection 1	1A (0.3 miles)		1B & 1C (1.0 miles)		1D, 1E, 1F & 1G (3.5 miles)	
	At Grade	Covered Trench / Tunnel	At Grade	Covered Trench / Tunnel	At Grade	Covered Trench / Tunnel
Capital Cost ($2009 in Millions) does not include ROW	$44 (2 tracks)	$70 (2 tracks)	$21 (2 tracks)	$278 (2 tracks)	$458 (4 tracks); $71 (2 tracks)	$978 (2 tracks)
Acquisition Cost of Permanent ROW	Lowest	Medium	Lowest	Lowest	Highest	Lowest
Notes:	**2 tracks -** 1. Grade separations at Common St and 16th St; 2. ROW take considers the parcels impacted by new grade separations; 3. Two tracks on existing Caltrain alignment for approach to 4th/King station. *Must be combined with 2 track covered trench/tunnel option.*	**2 tracks -** 1. Two tracks on new alignment for approach to TTC; *Must be combined with 2 track at grade option.* 2. Alignment under 7th St.	**2 tracks -** 1. Two tracks on existing Caltrain alignment for approach to 4th/King station. *Must be combined with 2 track covered trench/tunnel option.*	**2 tracks -** 1. Drilled & blast tunneling method; 2. Two tracks on new alignment for approach to TTC. *Must be combined with 2 track at grade option.*	**4 tracks** - 1. Two tracks on existing Caltrain alignment for approach to 4th/King station. 2. Two tracks on new alignment for approach to TTC using combination of tunneling and aerial structures. 3. Caltrain Bayshore Station. **2 tracks** - 1. Two tracks on existing Caltrain alignment for approach to 4th/King station. *Must be combined with 2 track covered trench/tunnel option.* 2. Caltrain Bayshore Station.	**2 tracks -** 1. Drilled & blast tunneling method; 2. Two tracks on new alignment for approach to TTC. *Must be combined with 2 track at grade option.*

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	A				A			
				Start: 200 + 00	End: 215 + 00	0.28 Miles		Start: 200 + 00	End: 215 + 00	0.28 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 200 + 00	End: 215 + 00	0.28 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 200 + 00	End: 215 + 00	0.28 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total										
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.28	$ 596,655			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.28	$ 1,335,273
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
	Four Track Section - Total										
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -
	Single Track - Total										
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -
	Earthwork Items										
1	Site Preparation - Undeveloped	Acre	$ 9,216			3.79	$ 34,909			3.79	$ 34,909
2	Total Cut	CY	$ 6			0.00	$ -			96800.00	$ 624,476
3	Total Fill	CY	$ 6			0.00	$ -			38720.00	$ 243,546
4	Borrow	CY	$ 13			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13			0.00	$ -			58080.00	$ 730,637
6	Landscape erosion Control	Acre	$ 6,144			0.09	$ 553			1.20	$ 7,373
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -				$ -
8	Special Drainage Facilities	5% Earthwork					$ 1,773				$ 82,047
	Structures, Tunnels, Walls										
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.00	$ -			0.00	$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -				$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.28	$ 37,285,818
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			0.28	$ 3,366,109
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -				$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -				$ -
	Grade Separations										
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352			2	$ 26,568,704				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816			0	$ -			0	$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -
	Building Items										

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	A				A			
				Start: 200 + 00	End: 215 + 00	0.28 Miles		Start: 200 + 00	End: 215 + 00	0.28 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 200 + 00	End: 215 + 00	0.28 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 200 + 00	End: 215 + 00	0.28 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -
	Rail & Utility Relocation										
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -
	ROW (NOT INCLUDED)										
	ROW required for each segment										
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -
	ROW required for Temp. Construction Easement										
1	Dense Urban	Acre					$ -				$ -
2	Urban	Acre					$ -				$ -
3	Dense Suburban	Acre					$ -				$ -
4	Suburban	Acre					$ -				$ -
5	Undeveloped	Acre					$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities										
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 816,078				$ 1,311,306
	System Elements										
1	Signaling (ATC)	Mile	$ 2,070,000			0.28	$ 588,068			0.28	$ 588,068
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.28	$ 153,409			0.28	$ 153,409
3	Wayside Protection System	Mile	$ 108,000			0.28	$ 30,682			0.28	$ 30,682
	Electrification Items										
1	Traction Power supply	Mile	$ 1,170,000			0.28	$ 332,386			0.28	$ 332,386
2	Traction Power Distribution	Mile	$ 1,485,000			0.28	$ 421,875			0.28	$ 421,875
	Subtotal						$ 29,545,092				$ 46,547,914
	Program Implementation Costs (per screening)						$ 7,533,998				$ 11,869,718
	Program Implementation Costs										
	Contingencies (per screening) (25%)						$ 7,386,273				$ 11,636,978
	Subtotal						$ 44,465,363				$ 70,054,611
	Subtotal Rounded						$ 44,000,000				$ 70,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	B				B			
				Start: 215 + 00	End: 255 + 00	0.76 Miles		Start: 215 + 00	End: 255 + 00	0.76 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 215 + 00	End: 255 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 215 + 00	End: 255 + 00	0.76 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total										
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.76	$ 1,591,079			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.76	$ 3,560,727
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
	Four Track Section - Total										
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -
	Single Track - Total										
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0.00	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0.00	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0.00	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0.00	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0.00	$ -
	Earthwork Items										
1	Site Preparation - Undeveloped	Acre	$ 9,216			10.10	$ 93,091			10.10	$ 93,091
2	Total Cut	CY	$ 6			0.00	$ -			652666.00	$ 4,210,479
3	Total Fill	CY	$ 6			261066.00	$ 1,642,084			261066.00	$ 1,642,084
4	Borrow	CY	$ 13			261066.00	$ 3,284,169			0.00	$ -
5	Spoil	CY	$ 13			0.00	$ -			391600.00	$ 4,926,265
6	Landscape erosion Control	Acre	$ 6,144			0.09	$ 553			8.09	$ 49,705
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.76	$ 109,382			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 256,464				$ 546,081
	Structures, Tunnels, Walls										
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.00	$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.76	$ 111,278,545
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -				$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			0.76	$ 8,976,291
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -				$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -				$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -				
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -				
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -				$ -
	Grade Separations										
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816			0	$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -
	Building Items										

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	B				B			
				Start: 215 + 00	End: 255 + 00	0.76 Miles		Start: 215 + 00	End: 255 + 00	0.76 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 215 + 00	End: 255 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 215 + 00	End: 255 + 00	0.76 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -
	Rail & Utility Relocation										
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -
	ROW (NOT INCLUDED)										
	ROW required for each segment										
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -
	ROW required for Temp. Construction Easement										
1	Dense Urban	Acre					$ -				$ -
2	Urban	Acre					$ -				$ -
3	Dense Suburban	Acre					$ -				$ -
4	Suburban	Acre					$ -				$ -
5	Undeveloped	Acre					$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities										
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 209,305				$ 4,058,498
	System Elements										
1	Signaling (ATC)	Mile	$ 2,070,000			0.76	$ 1,568,182			0.76	$ 1,568,182
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.76	$ 409,091			0.76	$ 409,091
3	Wayside Protection System	Mile	$ 108,000			0.76	$ 81,818			0.76	$ 81,818
	Electrification Items										
1	Traction Power supply	Mile	$ 1,170,000			0.76	$ 886,364			0.76	$ 886,364
2	Traction Power Distribution	Mile	$ 1,485,000			0.76	$ 1,125,000			0.76	$ 1,125,000
	Subtotal						$ 11,256,580				$ 143,412,222
	Program Implementation Costs (per screening)						$ 2,870,428				$ 36,570,117
	Program Implementation Costs										
	Contingencies (per screening) (25%)						$ 2,814,145				$ 35,853,055
	Subtotal						$ 16,941,153				$ 215,835,394
	Subtotal (Rounded)						$ 17,000,000				$ 216,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	C				C			
				Start: 255 + 00	End: 267 + 00	0.23 Miles		Start: 255 + 00	End: 267 + 00	0.23 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 255 + 00	End: 267 + 00	0.23 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 255 + 00	End: 267 + 00	0.23 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total										
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.23	$ 477,324			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.23	$ 1,068,218
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
	Four Track Section - Total										
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -
	Single Track - Total										
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0.00	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0.00	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0.00	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0.00	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0.00	$ -
	Earthwork Items										
1	Site Preparation - Undeveloped	Acre	$ 9,216			3.03	$ 27,927			3.03	$ 27,927
2	Total Cut	CY	$ 6			0.00	$ -			84333.00	$ 544,049
3	Total Fill	CY	$ 6			33733.00	$ 212,178			33733.00	$ 212,178
4	Borrow	CY	$ 13			33733.00	$ 424,356			0.00	$ -
5	Spoil	CY	$ 13			0.00	$ -			50600.00	$ 636,540
6	Landscape erosion Control	Acre	$ 6,144			0.09	$ 553			1.05	$ 6,451
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.23	$ 32,815			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 34,891				$ 71,357
	Structures, Tunnels, Walls										
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.00	$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.23	$ 33,383,564
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -				$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			0.23	$ 2,692,887
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -				$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -				$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -				
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -				
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -				$ -
	Grade Separations										
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816			0	$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -
	Building Items										

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	C				C			
				Start: 255 + 00	End: 267 + 00	0.23 Miles		Start: 255 + 00	End: 267 + 00	0.23 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 255 + 00	End: 267 + 00	0.23 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 255 + 00	End: 267 + 00	0.23 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -
	Rail & Utility Relocation										
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -
	ROW (NOT INCLUDED)										
	ROW required for each segment										
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -
	ROW required for Temp. Construction Easement										
1	Dense Urban	Acre					$ -				$ -
2	Urban	Acre					$ -				$ -
3	Dense Suburban	Acre					$ -				$ -
4	Suburban	Acre					$ -				$ -
5	Undeveloped	Acre					$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities										
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 36,301				$ 1,159,295
	System Elements										
1	Signaling (ATC)	Mile	$ 2,070,000			0.23	$ 470,455			0.23	$ 470,455
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.23	$ 122,727			0.23	$ 122,727
3	Wayside Protection System	Mile	$ 108,000			0.23	$ 24,545			0.23	$ 24,545
	Electrification Items										
1	Traction Power supply	Mile	$ 1,170,000			0.23	$ 265,909			0.23	$ 265,909
2	Traction Power Distribution	Mile	$ 1,485,000			0.23	$ 337,500			0.23	$ 337,500
	Subtotal						$ 2,467,481				$ 41,023,603
	Program Implementation Costs (per screening)						$ 629,208				$ 10,461,019
	Program Implementation Costs										
	Contingencies (per screening) (25%)						$ 616,870				$ 10,255,901
	Subtotal						$ 3,713,559				$ 61,740,523
	Subtotal (Rounded)						$ 4,000,000				$ 62,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	D				D				D			
				Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.91	$ 1,909,295			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.91	$ 4,272,873
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0.91	$ 8,545,745			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			12.12	$ 111,709			12.12	$ 111,709			0.00	$ -
2	Total Cut	CY	$ 6			0.00	$ -			0.00	$ -			916667.00	$ 5,913,602
3	Total Fill	CY	$ 6			0.00	$ -			0.00	$ -			366667.00	$ 2,306,306
4	Borrow	CY	$ 13			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13			0.00	$ -			0.00	$ -			550000.00	$ 6,918,912
6	Landscape erosion Control	Acre	$ 6,144			0.85	$ 5,222			0.85	$ 5,222			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.85	$ 122,726
8	Special Drainage Facilities	5% Earthwork					$ 5,847				$ 5,847				$ 763,077
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.91	$ 31,793,338			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.91	$ 133,534,255
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312											0.00	$ -
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -				$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -				$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -			0.91	$ 10,771,549
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -				$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -				$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	D				D				D			
				Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 267 + 00	End: 315 + 00	0.91 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (NOT INCLUDED)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre													$ -
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 60,962				$ 1,213,856				$ 4,938,099
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.91	$ 1,881,818			0.91	$ 1,881,818			0.91	$ 1,881,818
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.91	$ 490,909			0.91	$ 490,909			0.91	$ 490,909
3	Wayside Protection System	Mile	$ 108,000			0.91	$ 98,182			0.91	$ 98,182			0.91	$ 98,182
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.91	$ 1,063,636			0.91	$ 1,063,636			0.91	$ 1,063,636
2	Traction Power Distribution	Mile	$ 1,485,000			0.91	$ 1,350,000			0.91	$ 1,350,000			0.91	$ 1,350,000
	Subtotal						$ 6,977,580				$ 46,560,263				$ 174,425,945
	Program Implementation Costs (per screening)						$ 1,779,283				$ 11,872,867				$ 44,478,616
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 1,744,395				$ 11,640,066				$ 43,606,486
	Subtotal						$ 10,501,258				$ 70,073,196				$ 262,511,047
	Subtotal (Rounded)						$ 11,000,000				$ 70,000,000				$ 263,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	E				E				E			
				Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 315 + 00	Start: 350 + 00	0.66 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 315 + 00	End: 350 + 00	0.66 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.66	$ 1,392,194			0.66	$ 1,392,194			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.66	$ 3,115,636			0.66	$ 3,115,636
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			8.84	$ 81,469			8.84	$ 81,469			8.84	$ 81,469
2	Total Cut	CY	$ 6			0.00	$ -			0.00	$ -			231815.00	$ 1,495,485
3	Total Fill	CY	$ 6			0.00	$ -			0.00	$ -			92726.00	$ 583,239
4	Borrow	CY	$ 13			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13			0.00	$ -			0.00	$ -			139089.00	$ 1,749,717
6	Landscape erosion Control	Acre	$ 6,144			0.66	$ 4,055			0.66	$ 4,055			2.87	$ 17,633
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.22	$ 31,764
8	Special Drainage Facilities	5% Earthwork					$ 4,276				$ 4,276				$ 197,965
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.66	$ 97,368,727			0.66	$ 97,368,727
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -				$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -			0.66	$ 7,854,255
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -				$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -				$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624											0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -				$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	E				E				E			
				Start: 315 + 00	End: 350 + 00	0.66 Miles						Start: 315 + 00	Start: 350 + 00	0.66 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 315 + 00	End: 350 + 00	0.66 Miles		Start: 315 + 00	End: 350 + 00	0.66 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (NOT INCLUDED)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre													$ -
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 44,460				$ 3,058,991				$ 3,374,877
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.66	$ 1,372,159			0.66	$ 1,372,159			0.66	$ 1,372,159
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.66	$ 357,955			0.66	$ 357,955			0.66	$ 357,955
3	Wayside Protection System	Mile	$ 108,000			0.66	$ 71,591			0.66	$ 71,591			0.66	$ 71,591
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.66	$ 775,568			0.66	$ 775,568			0.66	$ 775,568
2	Traction Power Distribution	Mile	$ 1,485,000			0.66	$ 984,375			0.66	$ 984,375			0.66	$ 984,375
	Subtotal						$ 5,088,102				$ 108,586,997				$ 119,432,417
	Program Implementation Costs (per screening)						$ 1,297,466				$ 27,689,684				$ 30,455,266
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 1,272,026				$ 27,146,749				$ 29,858,104
	Subtotal						$ 7,657,594				$ 163,423,430				$ 179,745,787
	Subtotal (Rounded)						$ 8,000,000				$ 163,000,000				$ 180,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	F				F				F			
				Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 350 + 00	Start: 376 + 00	0.49 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 350 + 00	End: 376 + 00	0.49 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.49	$ 1,034,201			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.49	$ 2,314,473
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.49	$ 2,068,402			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			6.57	$ 60,549			6.57	$ 60,549			6.57	$ 60,549
2	Total Cut	CY	$ 6			0.00	$ -			0.00	$ -			529629.00	$ 3,416,743
3	Total Fill	CY	$ 6			0.00	$ -			0.00	$ -			211851.00	$ 1,332,526
4	Borrow	CY	$ 13			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13			0.00	$ -			0.00	$ -			317778.00	$ 3,997,596
6	Landscape erosion Control	Acre	$ 6,144			0.49	$ 3,011			0.49	$ 3,011			6.57	$ 40,366
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.49	$ 71,098			0.49	$ 70,748
8	Special Drainage Facilities	5% Earthwork					$ 3,178				$ 6,733				$ 445,926
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.49	$ 72,331,055
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -				$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -			0.49	$ 5,834,589
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -				$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -				$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624											0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -				$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
	Subsection 1		Base: 2009 (3rd Quarter)	F				F				F			
				Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 350 + 00	Start: 376 + 00	0.49 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 350 + 00	End: 376 + 00	0.49 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 350 + 00	End: 376 + 00	0.49 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896			0.49	$ 980,439			0.49	$ 980,439				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896												$ -
3	Single Track Removal	Mile	$ 130,048			0.49	$ 63,724			0.49	$ 63,724				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288			0.49	$ 758,661			0.49	$ 758,661				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (NOT INCLUDED)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre													$ -
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 87,113				$ 120,379				$ 2,695,337
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.49	$ 1,019,318			0.49	$ 1,019,318			0.49	$ 1,019,318
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.49	$ 265,909			0.49	$ 265,909			0.49	$ 265,909
3	Wayside Protection System	Mile	$ 108,000			0.49	$ 53,182			0.49	$ 53,182			0.49	$ 53,182
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.49	$ 576,136			0.49	$ 576,136			0.49	$ 576,136
2	Traction Power Distribution	Mile	$ 1,485,000			0.49	$ 731,250			0.49	$ 731,250			0.49	$ 731,250
	Subtotal						$ 5,636,671				$ 6,778,791				$ 95,185,704
	Program Implementation Costs (per screening)						$ 1,437,351				$ 1,728,592				$ 24,272,354
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 1,409,168				$ 1,694,698				$ 23,796,426
	Subtotal						$ 8,483,190				$ 10,202,080				$ 143,254,484
	Subtotal (Rounded)						$ 8,000,000				$ 10,000,000				$ 143,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
Subsection 1			Base: 2009 (3rd Quarter)	G				G				G			
				Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 376 + 00	Start: 450 + 00	1.40 Miles	
Subsection Details						Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 376 + 00	End: 450 + 00	1.40 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			1.40	$ 2,943,496			0.66	$ 1,389,330			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.74	$ 3,478,118			1.40	$ 6,587,345
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			18.69	$ 172,218			18.69	$ 172,218			18.69	$ 172,218
2	Total Cut	CY	$ 6			0.00	$ -			0.00	$ -			72314.81	$ 466,517
3	Total Fill	CY	$ 6			0.00	$ -			0.00	$ -			28925.93	$ 181,942
4	Borrow	CY	$ 13			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13			0.00	$ -			0.00	$ -			43388.89	$ 545,825
6	Landscape erosion Control	Acre	$ 6,144			0.74	$ 4,547			0.74	$ 4,547			0.90	$ 5,508
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.07	$ 9,708
8	Special Drainage Facilities	5% Earthwork					$ 8,838				$ 8,838				$ 69,086
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.74	$ 108,696,883			1.40	$ 205,865,309
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -				$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -			1.40	$ 16,606,138
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -				$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -				$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -				$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (4 Tracks)				Tunnel			
Subsection 1			Base: 2009 (3rd Quarter)	G				G				G			
				Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 376 + 00	Start: 450 + 00	1.40 Miles	
Subsection Details						Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 376 + 00	End: 450 + 00	1.40 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 376 + 00	End: 450 + 00	1.40 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			1	$ 15,000,000			1	$ 15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -			1	$ 15,000,000
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896			0.70	$ 1,400,627			0.70	$ 1,400,627				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896			0				0					$ -
3	Single Track Removal	Mile	$ 130,048			0.70	$ 91,034			0.70	$ 91,034				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288			0.74	$ 1,145,733			0.74	$ 1,145,733				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (NOT INCLUDED)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre												0	$ -
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 622,995				$ 3,941,620				$ 7,365,288
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			1.40	$ 2,901,136			1.40	$ 2,901,136			1.40	$ 2,901,136
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.40	$ 756,818			1.40	$ 756,818			1.40	$ 756,818
3	Wayside Protection System	Mile	$ 108,000			1.40	$ 151,364			1.40	$ 151,364			1.40	$ 151,364
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			1.40	$ 1,639,773			1.40	$ 1,639,773			1.40	$ 1,639,773
2	Traction Power Distribution	Mile	$ 1,485,000			1.40	$ 2,081,250			1.40	$ 2,081,250			1.40	$ 2,081,250
	Subtotal						$ 28,919,828				$ 142,859,289				$ 260,405,226
	Program Implementation Costs (per screening)						$ 7,374,556				$ 36,429,119				$ 66,403,333
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 7,229,957				$ 35,714,822				$ 65,101,306
	Subtotal						$ 43,524,342				$ 215,003,230				$ 391,909,864
	Subtotal (Rounded)						$ 44,000,000				$ 215,000,000				$ 392,000,000

Subsection 2	2A (4.2 miles)	2B (1.0 miles)	2C1 (1.0 miles)	2C2 (1.3 miles)					2D (1.2 miles)		
	At Grade	Berm	Berm	Aerial Viaduct	Berm	At Grade	Open Trench (HST Only)	Covered Trench/Tunnel (HST Only)	At Grade	Open Trench (HST Only)	Covered Trench (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$74	$66	$51	$97 (3 tracks); $93 (2 tracks)	$95 (3 tracks); $57 (2 tracks)	$28 (3 tracks); $26 (2 tracks)	$133 (1 track); $200 (2 tracks)	$295 (1 track); $331 (2 tracks)	$37 (3 tracks); $14 (2 tracks)	$50 (1 track); $181 (2 tracks)	$293 (1 track); $342 (2 tracks)
Acquisition Cost of Permanent ROW	Highest	Medium	Medium	Medium	Medium	Highest	Medium	Lowest	Highest	Medium	Lowest
Notes:	1. Existing 4 tracks extends from the Caltrain Bayshore Station to just north of the US 101 overpass. 2. Caltrain South San Francisco Station	1. Linden Ave and Scott St converted to undercrossings.	1. Assume Caltrain 2 track grade separation project completed (includes San Bruno Ave, San Mateo Ave, and Angus Ave converted to undercrossings).	**3 tracks (2 Caltrain-1 HST)** - 1. Three tracks on existing Caltrain alignment for approach to Caltrain and HST Millbrae station. *Must be combined with 1 track open trench or tunnel option.* **2 tracks (2 Caltrain)**- 1. Two tracks on existing Caltrain alignment for approach to Caltrain Millbrae station. *Must be combined with 2 track open trench or tunnel option.*	**3 tracks (2 Caltrain-1 HST)** - 1. Three tracks on existing Caltrain alignment for approach to Caltrain and HST Millbrae station. *Must be combined with 1 track open trench or tunnel option.* **2 tracks (2 Caltrain)**- 1. Two tracks on existing Caltrain alignment for approach to Caltrain Millbrae station. *Must be combined with 2 track open trench or tunnel option.*	**3 tracks (2 Caltrain-1 HST)** - 1. Three tracks on existing Caltrain alignment for approach to Caltrain and HST Millbrae station. *Must be combined with 1 track open trench or tunnel option.* **2 tracks (2 Caltrain)-** 1. Two tracks on existing Caltrain alignment for approach to Caltrain Millbrae station. 3. Center St and Santa Paula (Pedestrian) converted to an overcrossings. *Must be combined with 2 track open trench or tunnel option.*	**1 track** - 1. One track on new alignment for approach to HST Millbrae station. *Must be combined with 3 track aerial viaduct, berm, or at grade option.* **2 tracks** - 1. Two tracks on new alignment for approach to HST Millbrae station.*Must be combined with 2 track aerial viaduct, berm, or at grade option.*	**1 track** - 1. One track on new alignment for approach to HST Millbrae station. *Must be combined with 3 track aerial viaduct, berm, or at grade option.* **2 tracks** - 1. Two tracks on new alignment for approach to HST Millbrae station. *Must be combined with 2 track aerial viaduct, berm, or at grade option.*	**3 tracks (2 Caltrain-1 HST)** - 1. Three tracks on existing Caltrain alignment for Caltrain and HST Millbrae station. *Must be combined with 1 track open trench or tunnel option.* 2. Caltrain Millbrae Station. 3. HST Millbrae Station (1 platform) **2 tracks (2 Caltrain)**- 1. Two tracks on existing Caltrain alignment for Caltrain Millbrae station. *Must be combined with 2 track open trench or tunnel option.*	**1 track** - 1. One track on new alignment for HST Millbrae station. *Must be combined with 3 track at grade option.* 2. HST Millbrae station (1 platform) **2 tracks** - 1. Two tracks on new alignment for HST Millbrae station. *Must be combined with 2 track at grade option.* 2. HST Millbrae station (2 platforms)	**1 track** - 1. One track on new alignment for HST Millbrae station. *Must be combined with 3 track at grade option.* 2. HST Millbrae station (1 platform) **2 tracks** - 1. Two tracks on new alignment for HST Millbrae station. *Must be combined with 2 track at grade option.* 2. HST Millbrae station (2 platforms)

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade			
	Subsection 2		Base: 2009 (3rd Quarter)	A			
				Start: 450 + 00	End: 671 + 00	4.19 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 450 + 00	End: 671 + 00	4.19 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			4.19	$ 8,790,710
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			32.98	$ 303,921
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 15,196
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.02	$ 1,743,360
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816			0	$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -
	Building Items						

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade			
	Subsection 2		Base: 2009 (3rd Quarter)	A			
				Start: 450 + 00	End: 671 + 00	4.19 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 450 + 00	End: 671 + 00	4.19 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			1	$ 15,000,000
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 775,596
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			4.19	$ 8,664,205
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			4.19	$ 2,260,227
3	Wayside Protection System	Mile	$ 108,000			4.19	$ 452,045
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			4.19	$ 4,897,159
2	Traction Power Distribution	Mile	$ 1,485,000			4.19	$ 6,215,625
	Subtotal						$ 49,118,044
	Program Implementation Costs (per screening)						$ 12,525,101
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 12,279,511
	Subtotal						$ 73,922,656
	Subtotal (Rounded)						$ 74,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Berm			
	Subsection 2		Base: 2009 (3rd Quarter)	B			
				Start: 671 + 00	End: 724 + 00	1.00 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 671 + 00	End: 724 + 00	1.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.50	$ 2,108,179
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.50	$ 4,717,964
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			13.38	$ 123,345
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			196296.30	$ 1,177,778
4	Borrow	CY	$ 13.00			196296.30	$ 2,551,852
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 192,649
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.50	$ 17,552,572
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.50	$ 4,323,258
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			2	$ 5,519,360
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -
	Building Items						

	COST ELEMENTS	UNIT	UNIT PRICE	Berm			
	Subsection 2		Base: 2009 (3rd Quarter)	B			
				Start: 671 + 00	End: 724 + 00	1.00 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 671 + 00	End: 724 + 00	1.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 1,148,009
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			1.00	$ 2,077,841
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.00	$ 542,045
3	Wayside Protection System	Mile	$ 108,000			1.00	$ 108,409
	Electrification Items						
1	Traction Power supply	Mile	$ 117,000			1.00	$ 117,443
2	Traction Power Distribution	Mile	$ 1,485,000			1.00	$ 1,490,625
	Subtotal						$ 43,751,330
	Program Implementation Costs (per screening)						$ 11,156,589
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 10,937,832
	Subtotal						$ 65,845,751
	Subtotal (Rounded)						$ 66,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Berm				At-Grade (2 Tracks)				At-Grade (3 Tracks)				Elevated Viaduct (2 Tracks)			
	Subsection 2		Base: 2009 (3rd Quarter)	C1				C2				C2				C2			
				Start: 724 + 00	End: 775 + 00	0.97 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile) (Three track where noted)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 724 + 00	End: 775 + 00	0.97 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			1.29	$ 2,704,834			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.97	$ 4,539,927			0.00	$ -			0.00	$ -			1.29	$ 6,053,236
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three Track Section - Total (See note)																		
	Three-track Section - At Grade	Mile	$ 3,150,336			0.00	$ -			0.00	$ -			1.29	$ 4,057,251			0.00	$ -
	Three-Track Section - On Structure	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - In Tunnel or Subway	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - In Trench	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			7.61	$ 70,136			10.15	$ 93,514			10.15	$ 93,514			10.15	$ 93,514
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 3,507				$ 4,676				$ 4,676				$ 4,676
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672				$ -			0.00	$ -			0.00	$ -			1.29	$ 45,040,562
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short (assume cost for 1 track is 60% of unit cost)	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.97	$ 8,320,233			0.00	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -				$ -				$ -			0	$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -			0	$ -			0	$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Berm				At-Grade (2 Tracks)				At-Grade (3 Tracks)				Elevated Viaduct (2 Tracks)			
	Subsection 2		Base: 2009 (3rd Quarter)	C1				C2				C2				C2			
				Start: 724 + 00	End: 775 + 00	0.97 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile) (Three track where noted)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 724 + 00	End: 775 + 00	0.97 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -			2	$ 7,127,040			2	$ 7,127,040				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -			0	$ -			0	$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -			2	$ 174,080			1	$ 87,040			0	$ -
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			1	$ 15,000,000			0	$ -			0	$ -			0	$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 838,014				$ 303,124				$ 341,086				$ 1,535,760
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			0.97	$ 1,999,432			1.29	$ 2,665,909			1.29	$ 2,665,909			1.29	$ 2,665,909
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.97	$ 521,591			1.29	$ 695,455			1.29	$ 695,455			1.29	$ 695,455
3	Wayside Protection System	Mile	$ 108,000			0.97	$ 104,318			1.29	$ 139,091			1.29	$ 139,091			1.29	$ 139,091
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			0.97	$ 1,130,114			1.29	$ 1,506,818			1.29	$ 1,506,818			1.29	$ 1,506,818
2	Traction Power Distribution	Mile	$ 1,485,000			0.97	$ 1,434,375			1.29	$ 1,912,500			1.29	$ 1,912,500			2.52	$ 3,742,200
	Subtotal						$ 33,961,646				$ 17,327,041				$ 18,630,379				$ 61,477,221
	Program Implementation Costs (per screening)						$ 8,660,220				$ 4,418,395				$ 4,750,747				$ 15,676,691
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 8,490,411				$ 4,331,760				$ 4,657,595				$ 15,369,305
	Subtotal						$ 51,112,277				$ 26,077,196				$ 28,038,720				$ 92,523,217
	Subtotal (Rounded)						$ 51,000,000				$ 26,000,000				$ 28,000,000				$ 93,000,000

Note: unit price for three track is interpolated from double and four tracks

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (3 Tracks)				Berm (2 Tracks)				Berm (3 Tracks)				Open Trench (1 Track)			
	Subsection 2		Base: 2009 (3rd Quarter)	C2				C2				C2				C2			
				Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile) (Three track where noted)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			1.29	$ 6,053,236			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three Track Section - Total (See note)																		
	Three-track Section - At Grade	Mile	$ 3,150,336			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - On Structure	Mile	$ 7,050,240			1.29	$ 9,079,855			0.00	$ -			1.29	$ 9,079,855			0.00	$ -
	Three-Track Section - In Tunnel or Subway	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - In Trench	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00 Miles	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			1.29	$ 3,026,618
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			17.17	$ 158,255			10.15	$ 93,514			17.17	$ 158,255			10.15	$ 93,514
2	Total Cut	CY	$ 6.00			0.00	$ -			1385185.19	$ 8,311,111			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			503703.70	$ 3,022,222			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			881481.48	$ 11,459,259			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 7,913				$ 1,144,305				$ 7,913				$ 4,676
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			1.29	$ 45,040,562			0.00	$ -			1.29	$ 45,040,562			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short (assume cost for 1 track is 60% of unit cost)	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			1.29	$ 60,924,835
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -			0.00	$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -			0.00	$ -
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			0.00	$ -			1.29	$ 11,093,644
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -			1.29	$ 7,608,087
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -			0	$ -			0	$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (3 Tracks)				Berm (2 Tracks)				Berm (3 Tracks)				Open Trench (1 Track)			
Subsection 2			Base: 2009 (3rd Quarter)	C2				C2				C2				C2			
				Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile) (Three track where noted)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			0	$ -				$ -				$ -			1	$ 87,040
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -			1	$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			0	$ -			0	$ -			0	$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 1,628,598				$ 902,509				$ 1,628,598				$ 2,485,152
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.29	$ 2,665,909			1.29	$ 2,665,909			1.29	$ 2,665,909			1.29	$ 695,455
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.29	$ 695,455			1.29	$ 695,455			1.29	$ 695,455			1.29	$ 139,091
3	Wayside Protection System	Mile	$ 108,000			1.29	$ 139,091			1.29	$ 139,091			1.29	$ 139,091				$ -
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.29	$ 1,506,818			1.29	$ 1,506,818			1.29	$ 1,506,818			1.29	$ 1,912,500
2	Traction Power Distribution	Mile	$ 1,485,000			2.52	$ 3,742,200			1.29	$ 1,912,500			1.29	$ 1,912,500				$ -
	Subtotal						$ 64,664,654				$ 37,905,931				$ 62,834,954				$ 88,070,612
	Program Implementation Costs (per screening)						$ 16,489,487				$ 9,666,012				$ 16,022,913				$ 22,458,006
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 16,166,164				$ 9,476,483				$ 15,708,739				$ 22,017,653
	Subtotal						$ 97,320,305				$ 57,048,425				$ 94,566,607				$ 132,546,270
	Subtotal (Rounded)						$ 97,000,000				$ 57,000,000				$ 95,000,000				$ 133,000,000

Note: unit price for three track is interpolated from double and four tracks

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench (2 Tracks)				Covered Trench (1 Track) (HST only)				Covered Trench (2 Tracks) (HST only)			
	Subsection 2		Base: 2009 (3rd Quarter)	C2				C2				C2			
				Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile) (Three track where noted)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Double Track Trench (Mile)			Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles				0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			1.29	$ 6,053,236
4	Double Track Section - In Trench	Mile	$ 4,700,160			1.29	$ 6,053,236			0.00	$ -			0.00	$ -
	Three Track Section - Total (See note)														
	Three-track Section - At Grade	Mile	$ 3,150,336			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - On Structure	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - In Tunnel or Subway	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - In Trench	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0	$ -			0	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0.00	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			1.29	$ 3,026,618			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			27.32	$ 251,769			10.15	$ 93,514			17.17	$ 158,255
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 12,588				$ 4,676				$ 7,913
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			1.29	$ 189,173,527
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short (assume cost for 1 track is 60% of unit cost)	Mile	$ 78,843,904			1.29	$ 101,541,392			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			1.29	$ 15,259,695			1.29	$ 15,259,695
17	Retaining Walls	Mile	$ 8,613,888			1.29	$ 11,093,644			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			1.29	$ 7,608,087			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -			1.29	$ 169,029,042				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench (2 Tracks)				Covered Trench (1 Track) (HST only)				Covered Trench (2 Tracks) (HST only)			
	Subsection 2		Base: 2009 (3rd Quarter)	C2				C2				C2			
				Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile) (Three track where noted)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles	
	Double Track Trench (Mile)			Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles				0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 775 + 00	End: 843 + 00	1.29 Miles		Start: 0 + 00		0.00 Miles	
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			1	$ 87,040			0	$ -			0	$ -
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -			1	$ -			1	$ -			1	$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
											$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -								
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 3,799,433				$ 5,622,406				$ 6,319,579
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			1.29	$ 695,455			1.29	$ 695,455			1.29	$ 695,455
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.29	$ 139,091			1.29	$ 139,091			1.29	$ 139,091
3	Wayside Protection System	Mile	$ 108,000				$ -			1.29	$ -			1.29	$ -
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			1.29	$ 1,912,500			1.29	$ 1,912,500			1.29	$ 1,912,500
2	Traction Power Distribution	Mile	$ 1,485,000				$ -				$ -				$ -
	Subtotal						$ 133,194,234				$ 195,782,997				$ 219,719,250
	Program Implementation Costs (per screening)						$ 33,964,530				$ 49,924,664				$ 56,028,409
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 33,298,558				$ 48,945,749				$ 54,929,812
	Subtotal						$ 200,457,322				$ 294,653,410				$ 330,677,471
	Subtotal (Rounded)						$ 200,000,000				$ 295,000,000				$ 331,000,000

Note: unit price for three track is interpolated from double and four tracks

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (3 Tracks)				Open Trench (HST only) (1 Track)				Open Trench (HST only) (2 Tracks)			
	Subsection 2		Base: 2009 (3rd Quarter)	D				D				D				D			
				Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			1.17	$ 2,466,172			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			1.2	$ 5,519,127
	Three Track Section - Total (See note)																		
	Three-track Section - At Grade	Mile	$ 3,150,336			0.00	$ -			1.17	$ 3,699,258			0.00	$ -			0.00	$ -
	Three-Track Section - On Structure	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - In Tunnel or Subway	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Three-Track Section - In Trench	Mile	$ 7,050,240			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0.00	$ -			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			1.2	$ 2,759,564			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			9.25	$ 85,263			15.66	$ 144,291			7.12	$ 65,587			9.25	$ 85,263
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 4,263				$ 7,215				$ 3,279				$ 4,263
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			1.17	$ 92,581,857
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			1.17	$ 10,114,793			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			1.17	$ 6,936,785			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 Tracks)				At-Grade (3 Tracks)				Open Trench (HST only) (1 Track)				Open Trench (HST only) (2 Tracks)			
	Subsection 2		Base: 2009 (3rd Quarter)	D				D				D				D			
				Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 0 + 00		0.00 Miles	
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			1	$ 87,040			1	$ 87,040			1	$ 87,040			1	$ 87,040
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
1	Intermediate Passenger Stations (Millbrae)	Each	$12,562,617			0	$ -			0.5	$ 6,281,309			0.5	$ 6,281,309			1	$ 12,562,617
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			0	$ -			0.5	$ 7,500,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 79,282				$ 531,573				$ 787,451				$ 3,325,205
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.17	$ 2,430,682			1.17	$ 2,430,682			1.17	$ 2,430,682			1.17	$ 2,430,682
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.17	$ 634,091			1.17	$ 634,091			1.17	$ 634,091			1.17	$ 634,091
3	Wayside Protection System	Mile	$ 108,000			1.17	$ 126,818			1.17	$ 126,818			1.17	$ 126,818			1.17	$ 126,818
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.17	$ 1,373,864			1.17	$ 1,373,864			1.17	$ 1,373,864			1.17	$ 1,373,864
2	Traction Power Distribution	Mile	$ 1,485,000			1.17	$ 1,743,750			1.17	$ 1,743,750			1.17	$ 1,743,750			1.17	$ 1,743,750
							$ 9,031,225				$ 24,559,890				$ 33,345,012				$ 120,474,577
	Program Implementation Costs (per screening)						$ 2,302,962				$ 6,262,772				$ 8,502,978				$ 30,721,017
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 2,257,806				$ 6,139,973				$ 8,336,253				$ 30,118,644
	Subtotal						$ 13,591,993				$ 36,962,635				$ 50,184,243				$ 181,314,238
	Subtotal (Rounded)						$ 14,000,000				$ 37,000,000				$ 50,000,000				$ 181,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Covered Trench (HST only) (1 Track)				Covered Trench (HST only) (2 Tracks)			
	Subsection 2		Base: 2009 (3rd Quarter)	D				D			
				Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total										
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			1.17	$ 5,519,127
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -
	Three Track Section - Total (See note)										
	Three-track Section - At Grade	Mile	$ 3,150,336			0.00	$ -			0.00	$ -
	Three-Track Section - On Structure	Mile	$ 7,050,240			0.00	$ -			0.00	$ -
	Three-Track Section - In Tunnel or Subway	Mile	$ 7,050,240			0.00	$ -			0.00	$ -
	Three-Track Section - In Trench	Mile	$ 7,050,240			0.00	$ -			0.00	$ -
	Four Track Section - Total										
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -
	Single Track - Total										
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			1.17	$ 2,759,564			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -
	Earthwork Items										
1	Site Preparation - Undeveloped	Acre	$ 9,216			9.25	$ 85,263			15.66	$ 144,291
2	Total Cut	CY	$ 6.00			298518.52	$ 1,791,111			505185.19	$ 3,031,111
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			298518.52	$ 3,880,741			505185.19	$ 6,567,407
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 287,856				$ 487,140
	Structures, Tunnels, Walls										
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			1.17	$ 172,481,745
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312								
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896								
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			1.17	$ 13,913,251			1.17	$ 13,913,251
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080			1.17	$ 154,114,715				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624								
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792								
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -
	Grade Separations										
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Covered Trench (HST only) (1 Track)				Covered Trench (HST only) (2 Tracks)			
	Subsection 2		Base: 2009 (3rd Quarter)	D				D			
				Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 843 + 00	End: 905 + 00	1.17 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Single Track At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Tunnel (Mile)			Start: 843 + 00	End: 905 + 00	1.17 Miles		Start: 0 + 00		0.00 Miles	
	Single Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			0	$ -			0	$ -
	Building Items										
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -
1	Intermediate Passenger Stations (Millbrae)	Each	$12,562,617			0.5	$ 6,281,309			1	$ 12,562,617
2	Terminal Passenger Stations	Each	$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -
	Rail & Utility Relocation										
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -
	ROW (Not Included)										
	ROW required for each segment										
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -
	ROW required for Temp. Construction Easement										
1	Dense Urban	Acre					$ -				$ -
2	Urban	Acre					$ -				$ -
3	Dense Suburban	Acre					$ -				$ -
4	Suburban	Acre					$ -				$ -
5	Undeveloped	Acre					$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities										
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 5,493,414				$ 6,441,201
	System Elements										
1	Signaling (ATC)	Mile	$ 2,070,000			1.17	$ 2,430,682			1.17	$ 2,430,682
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.17	$ 634,091			1.17	$ 634,091
3	Wayside Protection System	Mile	$ 108,000			1.17	$ 126,818			1.17	$ 126,818
	Electrification Items										
1	Traction Power supply	Mile	$ 1,170,000			1.17	$ 1,373,864			1.17	$ 1,373,864
2	Traction Power Distribution	Mile	$ 1,485,000			1.17	$ 1,743,750			1.17	$ 1,743,750
							$ 194,916,427				$ 227,457,096
	Program Implementation Costs (per screening)						$ 49,703,689				$ 58,001,559
	Program Implementation Costs										
	Contingencies (per screening) (25%)						$ 48,729,107				$ 56,864,274
	Subtotal						$ 293,349,223				$ 342,322,929
	Subtotal (Rounded)						$ 293,000,000				$ 342,000,000

Subsection 3	3A (0.8 miles)			3B (1.9 miles)			3C & 3D (1.8 miles)			3E (0.5 miles)
	At Grade	Open Trench	Covered Trench / Tunnel	Aerial Viaduct	Open Trench	Covered Trench / Tunnel	Aerial Viaduct	Open Trench	Covered Trench / Tunnel	At Grade
Capital Cost ($2009 in Millions) does not include ROW	$11	$132	$345	$194	$433	$937	$265	$425	$894	$30
Acquisition Cost of Permanent ROW	Highest	Medium	Lowest	Medium	Medium	Lowest	Medium	Medium	Lowest	Highest
Notes:				1. Caltrain Broadway and Burlingame Stations	1. Caltrain Broadway and Burlingame Stations	1. Caltrain Broadway and Burlingame Stations	1. Caltrain San Mateo Station; 2. 1st, 2nd, 3rd, 4th, 5th, and 9th Aves to be partially lowered.	1. Caltrain San Mateo Station	1. Caltrain San Mateo Station	1. Caltrain Hayward Park Station

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	A				A				A			
				Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.76	$ 3,182,158			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0.00	$ -			0.76	$ 7,121,455
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0.76	$ 7,121,455			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -			10.10	$ 93,091			10.10	$ 93,091
2	Total Cut	CY	$ 6.00			0.00	$ -			162962.96	$ 977,778			162962.96	$ 977,778
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			162962.96	$ 2,118,519			162962.96	$ 2,118,519
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			10.10	$ 62,061			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.76	$ 109,382			0.76	$ 109,382			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 5,469				$ 168,041				$ 159,469
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0	$ -			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -								
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -								
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -			0	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -			0.76	$ 59,730,230			0	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -			0	$ -			0.76	$ 8,976,291
17	Retaining Walls	Mile	$ 8,613,888			0	$ -			0.76	$ 6,525,673			0	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -			0.76	$ 4,475,345			0	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -								
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -								
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.76	$ 198,857,697
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040			1	$ 87,040				$ -				$ -
	Building Items														

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	A				A				A			
				Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 905 + 00	End: 945 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 101,521				$ 2,441,447				$ 6,549,129
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.76	$ 1,568,182			0.76	$ 1,568,182			0.76	$ 1,568,182
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.76	$ 409,091			0.76	$ 409,091			0.76	$ 409,091
3	Wayside Protection System	Mile	$ 108,000			0.76	$ 81,818			0.76	$ 81,818			0.76	$ 81,818
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.76	$ 886,364			0.76	$ 886,364			0.76	$ 886,364
2	Traction Power Distribution	Mile	$ 1,485,000			0.76	$ 1,125,000			0.76	$ 1,125,000			0.76	$ 1,125,000
	Subtotal						$ 7,556,024				$ 87,893,476				$ 228,923,883
	Program Implementation Costs (per screening)						$ 1,926,786				$ 22,412,836				$ 58,375,590
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 1,889,006				$ 21,973,369				$ 57,230,971
	Subtotal						$ 11,371,817				$ 132,279,681				$ 344,530,443
	Subtotal (Rounded)						$ 11,000,000				$ 132,000,000				$ 345,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	B				B				B			
				Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			1.89	$ 17,803,636			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			1.89	$ 17,803,636
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			1.89	$ 17,803,636			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			25.25	$ 232,727			25.25	$ 232,727			25.25	$ 232,727
2	Total Cut	CY	$ 6.00			0	$ -			1629629.63	$ 9,777,778			1629629.63	$ 9,777,778
3	Total Fill	CY	$ 6.00			0	$ -			0.00	$ -			814814.81	$ 4,888,889
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			1629629.63	$ 21,185,185			814814.81	$ 10,592,593
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			25.25	$ 155,152			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			1.89	$ 273,455			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 11,636				$ 1,581,215				$ 1,274,599
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			1.89	$ 66,236,121			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.01	$ 697,344			0.01	$ 697,344			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			1.89	$ 149,325,576			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			0.00	$ -			1.89	$ 22,440,727
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			1.89	$ 16,314,182			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			1.89	$ 11,188,364			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			1.89	$ 497,144,242
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -			8	$ 11,190,272			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -
	Building Items														

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	B				B				B			
				Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 945 + 00	End: 1045 + 00	1.89 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			2	$ 30,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -			2	$ 30,000,000			2	$ 30,000,000
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 3,449,444				$ 8,091,747				$ 17,845,576
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			1.89	$ 3,920,455			1.89	$ 3,920,455			1.89	$ 3,920,455
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.89	$ 1,022,727			1.89	$ 1,022,727			1.89	$ 1,022,727
3	Wayside Protection System	Mile	$ 108,000			1.89	$ 204,545			1.89	$ 204,545			1.89	$ 204,545
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			1.89	$ 2,215,909			1.89	$ 2,215,909			1.89	$ 2,215,909
2	Traction Power Distribution	Mile	$ 1,485,000			1.89	$ 2,812,500			1.89	$ 2,812,500			1.89	$ 2,812,500
	Subtotal						$ 128,607,046				$ 287,992,768				$ 622,874,248
	Program Implementation Costs (per screening)						$ 32,794,797				$ 73,438,156				$ 158,832,933
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 32,151,761				$ 71,998,192				$ 155,718,562
	Subtotal						$ 193,553,604				$ 433,429,115				$ 937,425,744
	Subtotal (Rounded)						$ 194,000,000				$ 433,000,000				$ 937,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	C				C				C			
				Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.80	$ 7,477,527			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.80	$ 7,477,527
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.80	$ 7,477,527			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			10.61	$ 97,745			10.61	$ 97,745			10.61	$ 97,745
2	Total Cut	CY	$ 6.00			0.00	$ -			684444.44	$ 4,106,667			684444.44	$ 4,106,667
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			342222.22	$ 2,053,333
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			684444.44	$ 8,897,778			342222.22	$ 4,448,889
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			10.61	$ 65,164			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.80	$ 114,851			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 4,887				$ 664,110				$ 535,332
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.80	$ 27,819,171			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -			0.01	$ 697,344			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.80	$ 62,716,742			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			0.00	$ -			0.80	$ 9,425,105
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.80	$ 6,851,956			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.80	$ 4,699,113			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.80	$ 208,800,582
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -			6	$ 8,392,704				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -
	Building Items														

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	C				C				C			
				Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 1045 + 00	End: 1087 + 00	0.80 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -			1	$ 15,000,000			1	$ 15,000,000
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 1,511,980				$ 3,593,451				$ 7,579,276
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.80	$ 1,646,591			0.80	$ 1,646,591			0.80	$ 1,646,591
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.80	$ 429,545			0.80	$ 429,545			0.80	$ 429,545
3	Wayside Protection System	Mile	$ 108,000			0.80	$ 85,909			0.80	$ 85,909			0.80	$ 85,909
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.80	$ 930,682			0.80	$ 930,682			0.80	$ 930,682
2	Traction Power Distribution	Mile	$ 1,485,000			0.80	$ 1,181,250			0.80	$ 1,181,250			0.80	$ 1,181,250
	Subtotal						$ 56,185,288				$ 127,649,129				$ 264,495,778
	Program Implementation Costs (per screening)						$ 14,327,248				$ 32,550,528				$ 67,446,423
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 14,046,322				$ 31,912,282				$ 66,123,944
	Subtotal						$ 84,558,859				$ 192,111,939				$ 398,066,145
	Subtotal (Rounded)						$ 85,000,000				$ 192,000,000				$ 398,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	D				D				D			
				Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			1.00	$ 9,435,927			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			1.00	$ 9,435,927
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			1.00	$ 9,435,927			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			13.38	$ 123,345			13.38	$ 123,345			13.38	$ 123,345
2	Total Cut	CY	$ 6.00			0.00	$ -			863703.70	$ 5,182,222			863703.70	$ 5,182,222
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			431851.85	$ 2,591,111
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			863703.70	$ 11,228,148			431851.85	$ 5,614,074
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			13.38	$ 82,230			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			1.00	$ 144,931			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 6,167				$ 838,044				$ 675,538
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			1.00	$ 35,105,144			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -			0.01	$ 697,344			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			1.00	$ 79,142,555			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			0.00	$ -			1.00	$ 11,893,585
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			1.00	$ 8,646,516			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			1.00	$ 5,929,833			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			1.00	$ 263,486,448
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			2	$ 39,853,056				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			4	$ 11,038,720				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -			6	$ 8,392,704				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				Open Trench				Covered Trench			
	Subsection 3		Base: 2009 (3rd Quarter)	D				D				D			
				Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 1087 + 00	End: 1140 + 00	1.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -			1	$ 15,000,000			1	$ 15,000,000
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 3,316,871				$ 4,345,314				$ 9,440,988
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			1.00	$ 2,077,841			1.00	$ 2,077,841			1.00	$ 2,077,841
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.00	$ 542,045			1.00	$ 542,045			1.00	$ 542,045
3	Wayside Protection System	Mile	$ 108,000			1.00	$ 108,409			1.00	$ 108,409			1.00	$ 108,409
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			1.00	$ 1,174,432			1.00	$ 1,174,432			1.00	$ 1,174,432
2	Traction Power Distribution	Mile	$ 1,485,000			1.00	$ 1,490,625			1.00	$ 1,490,625			1.00	$ 1,490,625
	Subtotal						$ 119,272,583				$ 154,582,467				$ 329,533,936
	Program Implementation Costs (per screening)						$ 30,414,509				$ 39,418,529				$ 84,031,154
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 29,818,146				$ 38,645,617				$ 82,383,484
	Subtotal						$ 179,505,238				$ 232,646,612				$ 495,948,573
	Subtotal (Rounded)						$ 180,000,000				$ 233,000,000				$ 496,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade			
	Subsection 3		Base: 2009 (3rd Quarter)	E			
				Start: 1140 + 00	End: 1164 + 00	0.45 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 1140 + 00	End: 1164 + 00	0.45 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.45	$ 1,909,295
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.45	$ 65,629
8	Special Drainage Facilities	5% Earthwork					$ 3,281
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -
17	Retaining Walls	Mile	$ 8,613,888			0	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade			
	Subsection 3		Base: 2009 (3rd Quarter)	E			
				Start: 1140 + 00	End: 1164 + 00	0.45 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 1140 + 00	End: 1164 + 00	0.45 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Building Items						
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			1	$ 15,000,000
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 509,346
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			0.45	$ 940,909
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.45	$ 245,455
3	Wayside Protection System	Mile	$ 108,000			0.45	$ 49,091
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			0.45	$ 531,818
2	Traction Power Distribution	Mile	$ 1,485,000			0.45	$ 675,000
	Subtotal						$ 19,929,824
	Program Implementation Costs (per screening)						$ 5,082,105
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 4,982,456
	Subtotal						$ 29,994,385
	Subtotal (Rounded)						$ 30,000,000

Subsection 4	4A (0.7 miles)	4B1 (1.3 miles)	4B2 (3.4 miles)				
	Berm	Berm	Aerial Viaduct	At Grade	Open Trench / Tunnel	Covered Trench / Tunnel	Deep Tunnel (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$40	$105	$326 (4 tracks)	$124 (4 tracks) $28 (2 tracks)	$682 (4 tracks)	$1,637 (4 tracks)	$1,502 (2 tracks)
Acquisition Cost of Permanent ROW	Medium	Medium	Medium	Highest	Lowest	Lowest	Lowest
Notes:		1. Caltrain Hillsdale Station. 2. New 28th Ave extension	**4 tracks -** 1. Raise Ralston Ave, Harbor Blvd, F St, and Holly St to smooth profile; 2. Caltrain Belmont and San Carlos stations;	**4 tracks -** 1. Caltrain Belmont and San Carlos stations. **2 tracks -** 1. Electrification only. 2. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** 1. Raise Ralston Ave, Harbor Blvd, F St, and Holly St to smooth profile; 2. Caltrain Belmont and San Carlos stations;	**4 tracks -** 1. Raise Ralston Ave, Harbor Blvd, F St, and Holly St to smooth profile; 2. Caltrain Belmont and San Carlos stations;	**2 tracks -** 1. This option would leave existing Caltrain unchanged because subsection already grade separated. 2. *Must be combined with 2 track at grade option.*

Subsection 4	4C (1.6 miles)				4D (0.6 miles)				
	Aerial Viaduct	**Open Trench**	**Covered Trench/Tunnel**	**Deep Tunnel (HST Only)**	**Aerial Viaduct (HST Only)**	**At Grade (Caltrain Only)**	**Open Trench (HST Only)**	**Covered Trench/Tunnel (HST Only)**	**Deep Tunnel (HST Only)**
Capital Cost ($2009 in Millions) does not include ROW	$157 (4 tracks); $111 (2 tracks)	$325 (4 tracks)	$765 (4 tracks)	$336 (2 tracks)	$30 (2 tracks)	$7 (2 tracks)	$105 (2 tracks)	$152 (2 tracks)	$121 (2 tracks)
Acquisition Cost of Permanent ROW	Medium	Medium	Lowest	Lowest	Medium	Highest	Medium	Lowest	Lowest
Notes:	**4 tracks -** 1. Caltrain Redwood City Station. 2. Potential HST Redwood City station (costs not included). **2 tracks -** 1. Caltrain Redwood City Station. 2. Potential HST Redwood City station (costs not included). 3. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** 1. Caltrain Redwood City Station. 2. Potential HST Redwood City station (costs not included). 3. Raise Jefferson Ave to smooth profile.	**4 tracks -** 1. Caltrain Redwood City Station. 2. Potential HST Redwood City station (costs not included). 3. Raise Jefferson Ave to smooth profile.	**2 tracks -** 1. No potential HST Redwood City station. 2. Two tracks only. 3. *Must be combined with 2 track aerial viaduct option.*	**2 tracks -** 1. Convert Woodside Road overpass to underpass. 2. Two tracks only. 3. *Must be combined with 2 track at grade option.*	**2 tracks -** 1. Existing 4-track alignment. 2. *Must be combined with 2 track aerial viaduct or trench or tunnel option.*	**2 tracks -** 1. *Must be combined with 2 track at grade option.*	**2 tracks -** 1. *Must be combined with 2 track at grade option.*	**2 tracks -** 1. *Must be combined with 2 track aerial viaduct option.*

	COST ELEMENTS	UNIT	UNIT PRICE	Berm			
	Subsection 4		Base: 2009 (3rd Quarter)	A			
				Start: 1164 + 00	End: 1200 + 00	0.68 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 1164 + 00	End: 1182 + 00	0.34 Miles	
	Four Track Elevated (Mile)			Start: 1182 + 00	End: 1200 + 00	0.34 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.34	$ 1,431,971
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.34	$ 3,204,655
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			12.88	$ 118,702
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			133333.33	$ 800,000
4	Borrow	CY	$ 13.00			133333.33	$ 1,733,333
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			12.88	$ 79,135
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.68	$ 98,444
8	Special Drainage Facilities	5% Earthwork					$ 141,481
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.34	$ 11,922,502
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.34	$ 2,936,553
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -
	Building Items						

	COST ELEMENTS	UNIT	UNIT PRICE	Berm			
	Subsection 4		Base: 2009 (3rd Quarter)	A			
				Start: 1164 + 00	End: 1200 + 00	0.68 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 1164 + 00	End: 1182 + 00	0.34 Miles	
	Four Track Elevated (Mile)			Start: 1182 + 00	End: 1200 + 00	0.34 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						$ -
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 674,003
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			0.68 Miles	$ 1,411,364
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.68 Miles	$ 368,182
3	Wayside Protection System	Mile	$ 108,000			0.68 Miles	$ 73,636
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			0.68 Miles	$ 797,727
2	Traction Power Distribution	Mile	$ 1,485,000			0.68 Miles	$ 1,012,500
	Subtotal						$ 26,804,187
	Program Implementation Costs (per screening)						$ 6,835,068
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 6,701,047
	Subtotal						$ 40,340,301
	Subtotal (Rounded)						$ 40,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Berm				Aerial Viaduct				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 4		Base: 2009 (3rd Quarter)	B1				B2				B2				B2			
				Start: 1200 + 00	Start: 1270 + 00	1.33 Miles		Start: 1270 + 00	Start: 1450 + 00	3.41 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 1200 + 00	End: 1235 + 00	0.66 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1235 + 00	End: 1270 + 00	0.66 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.66	$ 2,784,388			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.66	$ 6,231,273			3.41	$ 32,046,545			0.00	$ -			3.41	$ 32,046,545
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			259259.26	$ 1,555,556			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			259259.26	$ 3,370,370			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.66	$ 95,709			0.00	$ -			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 251,082				$ -				$ -				$ -
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.66	$ 23,182,642			3.41	$ 119,225,018			0.00	$ -				$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -												
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 792,000,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.66	$ 5,709,964			0.00	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 1,584,000,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -			0	$ -			0	$ -			0	$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			1	$ 2,759,680			4	$ 11,038,720				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Berm				Aerial Viaduct				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 4		Base: 2009 (3rd Quarter)	B1				B2				B2				B2			
				Start: 1200 + 00	Start: 1270 + 00	1.33 Miles		Start: 1270 + 00	Start: 1450 + 00	3.41 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 1200 + 00	End: 1235 + 00	0.66 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1235 + 00	End: 1270 + 00	0.66 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -			0	$ -			2	$ 30,000,000
	Caltrain Passenger Station - On Structure	Each	$15,000,000			1	$ 15,000,000			2	$ 30,000,000				$ -				$ -
2	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -				$ -				$ -
1	Dense Urban	Acre					$ -				B				B				B
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 1,828,220				$ 5,769,309				$ -				$ 1,861,396
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.33	$ 2,744,318			3.41	$ 7,056,818			3.41	$ 7,056,818			3.41	$ 7,056,818
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.33	$ 715,909			3.41	$ 1,840,909			3.41	$ 1,840,909			3.41	$ 1,840,909
3	Wayside Protection System	Mile	$ 108,000			1.33	$ 143,182			3.41	$ 368,182			3.41	$ 368,182			3.41	$ 368,182
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.33	$ 1,551,136			3.41	$ 3,988,636			3.41	$ 3,988,636			3.41	$ 3,988,636
2	Traction Power Distribution	Mile	$ 1,485,000			1.33	$ 1,968,750			3.41	$ 5,062,500			3.41	$ 5,062,500			3.41	$ 5,062,500
	Subtotal						$ 69,892,179				$ 216,396,638				$ 18,317,045				$ 82,224,987
	Program Implementation Costs (per screening)						$ 17,822,506				$ 55,181,143				$ 4,670,847				$ 20,967,372
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 17,473,045				$ 54,099,159				$ 4,579,261				$ 20,556,247
	Subtotal						$ 105,187,729				$ 325,676,940				$ 27,567,153				$ 123,748,606
	Subtotal (Rounded)						$ 105,000,000				$ 326,000,000				$ 28,000,000				$ 124,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 4		Base: 2009 (3rd Quarter)	B2				B2				B2			
				Start: 1270 + 00	Start: 1450 + 00	3.41 Miles		Start: 1270 + 00	Start: 1450 + 00	3.41 Miles		Start: 1270 + 00	Start: 1450 + 00	3.41 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			3.41	$ 16,023,273
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			3.41	$ 32,046,545				
	Four-Track Section - In Trench	Mile	$ 9,400,320			3.41	$ 32,046,545			0	$ -			0	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			45.45	$ 418,909			45.45	$ 418,909			0.00	$ -
2	Total Cut	CY	$ 6.00			1466666.67	$ 8,800,000			1466666.67	$ 8,800,000			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -				$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			1466666.67	$ 19,066,667			1466666.67	$ 19,066,667			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			45.45	$ 279,273			45.45	$ 279,273			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			3.41	$ 492,218			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 1,452,853				$ 1,428,242				$ -
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 792,000,000				$ -				$ -			0.76	$ 601,200,000
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312											2.65	$ 282,588,877
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			3.41	$ 268,786,036			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -			3.41	$ 40,393,309			3.41	$ 40,393,309
17	Retaining Walls	Mile	$ 8,613,888			3.41	$ 29,365,527			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			3.41	$ 20,139,055			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 1,584,000,000				$ -				$ -				
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624											0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			3.41	$ 894,859,636			0.00	$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			4	$ 11,038,720			4	$ 11,038,720			4	$ 11,038,720
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -			0	$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 4		Base: 2009 (3rd Quarter)	B2				B2				B2			
				Start: 1270 + 00	Start: 1450 + 00	3.41 Miles		Start: 1270 + 00	Start: 1450 + 00	3.41 Miles		Start: 1270 + 00	Start: 1450 + 00	3.41 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1270 + 00	End: 1450 + 00	3.41 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
2	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -			0	$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000			2	$ 30,000,000			2	$ 30,000,000			0	$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -				$ -
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 12,656,574				$ 31,149,939				$ 28,537,325
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			3.41	$ 7,056,818			3.41	$ 7,056,818			3.41	$ 7,056,818
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			3.41	$ 1,840,909			3.41	$ 1,840,909			3.41	$ 1,840,909
3	Wayside Protection System	Mile	$ 108,000			3.41	$ 368,182			3.41	$ 368,182			3.41	$ 368,182
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			3.41	$ 3,988,636			3.41	$ 3,988,636			3.41	$ 3,988,636
2	Traction Power Distribution	Mile	$ 1,485,000			3.41	$ 5,062,500			3.41	$ 5,062,500			3.41	$ 5,062,500
	Subtotal						$ 452,859,423				$ 1,087,798,286				$ 998,098,549
	Program Implementation Costs (per screening)						$ 115,479,153				$ 277,388,563				$ 254,515,130
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 113,214,856				$ 271,949,572				$ 249,524,637
	Subtotal						$ 681,553,432				$ 1,637,136,421				$ 1,502,138,317
	Subtotal (Rounded)						$ 682,000,000				$ 1,637,000,000				$ 1,502,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Aerial Viaduct (4 Tracks)				Aerial Viaduct (2 Tracks)				Open Trench				Covered Trench			
	Subsection 4		Base: 2009 (3rd Quarter)	C				C				C				C			
				Start: 1450 + 00	Start: 1533 + 00	1.57 Miles		Start: 1450 + 00	Start: 1533 + 00	1.57 Miles		Start: 1450 + 00	Start: 1533 + 00	1.57 Miles		Start: 1450 + 00	Start: 1533 + 00	1.57 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 1450 + 00	End: 1533 + 00	1.57 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1450 + 00	End: 1533 + 00	1.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1450 + 00	End: 1533 + 00	1.57 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 1450 + 00	End: 1533 + 00	1.57 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			1.57	$ 7,388,509			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			1.57	$ 14,777,018			0.00	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0	$ -			1.57	$ 14,777,018
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			1.57	$ 14,777,018			0	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0.00	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -			0.00	$ -			20.96	$ 193,164			20.96	$ 193,164
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			676296.30	$ 4,057,778			676296.30	$ 4,057,778
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -				$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			676296.30	$ 8,791,852			676296.30	$ 8,791,852
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			20.96	$ 128,776			20.96	$ 128,776
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			1.57	$ 226,967			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ -				$ -				$ 669,927				$ 658,578
	Structures, Tunnels, Walls																		
1	Standard Structure (assume cost for 2 track is 60% of unit cost)	Mile	$ 34,972,672			1.57	$ 54,975,981			1.57	$ 32,985,588			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208												$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			1.57	$ 123,940,228			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -			1.57	$ 18,625,804
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			1.57	$ 13,540,771			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			1.57	$ 9,286,342			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			1.57	$ 412,629,721
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -			0	$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			3	$ 8,279,040			3	$ 8,279,040			0	$ -			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -			3	$ 10,690,560			3	$ 10,690,560
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Aerial Viaduct (4 Tracks)				Aerial Viaduct (2 Tracks)				Open Trench				Covered Trench			
	Subsection 4		Base: 2009 (3rd Quarter)	C				C				C				C			
				Start: 1450 + 00	Start: 1533 + 00	1.57 Miles		Start: 1450 + 00	Start: 1533 + 00	1.57 Miles		Start: 1450 + 00	Start: 1533 + 00	1.57 Miles		Start: 1450 + 00	Start: 1533 + 00	1.57 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 1450 + 00	End: 1533 + 00	1.57 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 1450 + 00	End: 1533 + 00	1.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1450 + 00	End: 1533 + 00	1.57 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 1450 + 00	End: 1533 + 00	1.57 Miles		Start: 0 + 00		0.00 Miles	
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			1	$ 15,000,000			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -			1	$ 15,000,000			1	$ 15,000,000
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -				$ -				$ -
1	Dense Urban	Acre					B				B				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,790,961				$ 1,909,594				$ 6,039,101				$ 14,566,598
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.57	$ 3,253,977			1.57	$ 3,253,977			1.57	$ 3,253,977			1.57	$ 3,253,977
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.57	$ 848,864			1.57	$ 848,864			1.57	$ 848,864			1.57	$ 848,864
3	Wayside Protection System	Mile	$ 108,000			1.57	$ 169,773			1.57	$ 169,773			1.57	$ 169,773			1.57	$ 169,773
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.57	$ 1,839,205			1.57	$ 1,839,205			1.57	$ 1,839,205			1.57	$ 1,839,205
2	Traction Power Distribution	Mile	$ 1,485,000			1.57	$ 2,334,375			1.57	$ 2,334,375			1.57	$ 2,334,375			1.57	$ 2,334,375
	Subtotal						$ 104,269,193				$ 74,008,925				$ 215,788,677				$ 508,566,041
	Program Implementation Costs (per screening)						$ 26,588,644				$ 18,872,276				$ 55,026,113				$ 129,684,341
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 26,067,298				$ 18,502,231				$ 53,947,169				$ 127,141,510
	Subtotal						$ 156,925,136				$ 111,383,432				$ 324,761,958				$ 765,391,892
	Subtotal (Rounded)						$ 157,000,000				$ 111,000,000				$ 325,000,000				$ 765,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 4		Base: 2009 (3rd Quarter)	C			
				Start: 1450 + 00	Start: 1533 + 00	1.57 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 1450 + 00	End: 1533 + 00	1.57 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			1.57	$ 7,388,509
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ -
	Structures, Tunnels, Walls						
1	Standard Structure (assume cost for 2 track is 60% of unit cost)	Mile	$ 34,972,672			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312			0.00	$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896			0.00	$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312			1.57	$ 167,630,623
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			1.57	$ 18,625,804
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624			0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 4		Base: 2009 (3rd Quarter)	C			
				Start: 1450 + 00	Start: 1533 + 00	1.57 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 1450 + 00	End: 1533 + 00	1.57 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Building Items						
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000			1	$ 15,000,000
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						$ -
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 6,259,348
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			1.57	$ 3,253,977
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.57	$ 848,864
3	Wayside Protection System	Mile	$ 108,000			1.57	$ 169,773
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			1.57	$ 1,839,205
2	Traction Power Distribution	Mile	$ 1,485,000			1.57	$ 2,334,375
	Subtotal						$ 223,350,477
	Program Implementation Costs (per screening)						$ 56,954,372
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 55,837,619
	Subtotal						$ 336,142,468
	Subtotal (Rounded)						$ 336,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Aerial Viaduct (HST only)				At-Grade (CALTRAIN only)				Open Trench (HST only)				Covered Trench (HST only)			
Subsection 4			Base: 2009 (3rd Quarter)	D				D				D				D			
				Start: 1533 + 00	Start: 1565 + 00	0.61 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 1533 + 00	Start: 1565 + 00	0.61 Miles		Start: 1533 + 00	Start: 1565 + 00	0.61 Miles	
Subsection Details						Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.61	$ 1,272,863			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.61	$ 2,848,582			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.61	$ 2,848,582
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.61	$ 2,848,582			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0.00	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -			0.00	$ -			8.08	$ 74,473			8.08	$ 74,473
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			260740.74	$ 1,564,444			260740.74	$ 1,564,444
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -				$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			260740.74	$ 3,389,630			260740.74	$ 3,389,630
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			8.08	$ 49,648			8.08	$ 49,648
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.61	$ 87,505			0.61	$ 87,505
8	Special Drainage Facilities	5% Earthwork					$ -				$ -				$ 258,285				$ 258,285
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208												$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -			0.61	$ 79,543,079
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.61	$ 47,784,184			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -			0.61	$ 7,181,033
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			0.61	$ 5,220,538			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.61	$ 3,580,276			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352			1	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -			0	$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -			0	$ -			0	$ -			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Aerial Viaduct (HST only)				At-Grade (CALTRAIN only)				Open Trench (HST only)				Covered Trench (HST only)			
Subsection 4			Base: 2009 (3rd Quarter)	D				D				D				D			
				Start: 1533 + 00	Start: 1565 + 00	0.61 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 1533 + 00	Start: 1565 + 00	0.61 Miles		Start: 1533 + 00	Start: 1565 + 00	0.61 Miles	
Subsection Details						Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1533 + 00	End: 1565 + 00	0.61 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -				$ -				$ -
1	Dense Urban	Acre					B				B				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 483,988				$ 38,186				$ 1,945,727				$ 2,849,900
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			0.61	$ 1,254,545			0.61	$ 1,254,545			0.61	$ 1,254,545			0.61	$ 1,254,545
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.61	$ 327,273			0.61	$ 327,273			0.61	$ 327,273			0.61	$ 327,273
3	Wayside Protection System	Mile	$ 108,000			0.61	$ 65,455			0.61	$ 65,455			0.61	$ 65,455			0.61	$ 65,455
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			0.61	$ 709,091			0.61	$ 709,091			0.61	$ 709,091			0.61	$ 709,091
2	Traction Power Distribution	Mile	$ 1,485,000			0.61	$ 900,000			0.61	$ 900,000			0.61	$ 900,000			0.61	$ 900,000
	Subtotal						$ 19,873,285				$ 4,567,413				$ 70,059,657				$ 101,102,943
	Program Implementation Costs (per screening)						$ 5,067,688				$ 1,164,690				$ 17,865,213				$ 25,781,250
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 4,968,321				$ 1,141,853				$ 17,514,914				$ 25,275,736
	Subtotal						$ 29,909,295				$ 6,873,956				$ 105,439,784				$ 152,159,929
	Subtotal (Rounded)						$ 30,000,000				$ 7,000,000				$ 105,000,000				$ 152,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
Subsection 4			Base: 2009 (3rd Quarter)	D			
				Start: 1533 + 00	Start: 1565 + 00	0.61 Miles	
Subsection Details						Quant.	Cost
Double Track At-Grade (Mile)				Start: 0 + 00	Start: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 1533 + 00	End: 1565 + 00	0.61 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.61	$ 2,848,582
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ -
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312			0.61	$ 64,628,674
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.61	$ 7,181,033
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624			0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
Subsection 4			Base: 2009 (3rd Quarter)	D			
				Start: 1533 + 00	Start: 1565 + 00	0.61 Miles	
Subsection Details						Quant.	Cost
Double Track At-Grade (Mile)				Start: 0 + 00	Start: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 1533 + 00	End: 1565 + 00	0.61 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles	
	Building Items						
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						$ -
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,239,749
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			0.61	$ 1,254,545
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.61	$ 327,273
3	Wayside Protection System	Mile	$ 108,000			0.61	$ 65,455
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			0.61	$ 709,091
2	Traction Power Distribution	Mile	$ 1,485,000			0.61	$ 900,000
	Subtotal						$ 80,154,401
	Program Implementation Costs (per screening)						$ 20,439,372
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 20,038,600
	Subtotal						$ 120,632,373
	Subtotal (Rounded)						$ 121,000,000

Subsection 5	5A (0.8 miles)		5B (1.7 miles)					5C (1.0 miles)		
	At Grade	Deep Tunnel (HST Only)	Aerial Viaduct	At Grade	Open Trench	Covered Trench/Tunnel	Deep Tunnel (HST Only)	At-Grade	Covered Trench/Tunnel	Deep Tunnel (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$11 (4 tracks) $9 (2 tracks)	$151 (2 tracks)	$178 (4 tracks) $166 (2 tracks)	$98 (4 tracks) $39 (2 tracks)	$355 (4 tracks) $343 (2 tracks)	$833 (4 tracks) $474 (2 tracks)	$524 (2 tracks)	$20 (4 tracks) $16 (2 tracks)	$588 (4 tracks) $610 (2 tracks)	$671 (2 tracks)
Acquisition Cost of Permanent ROW	Highest	Lowest	Medium	Highest	Medium	Lowest	Lowest	Highest	Lowest	Lowest
Notes:	**4 tracks** - 1. Four tracks on existing Caltrain alignment. 2. Existing 4-track alignment. **2 tracks (2 HST)**- 1. Two tracks on existing Caltrain alignment. 2. *Must be combined with 2 track deep tunnel option.*	**2 tracks -** 1. *Must be combined with 2 track at grade option.*	**4 tracks -** 1. Caltrain Atherton and Menlo Park stations; **2 tracks** - 1. Caltrain Atherton and Menlo Park stations. 2. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** 1. Caltrain Atherton and Menlo Park stations; 2. Grade separations at Fair Oaks Lane, Watkins Ave, Encinal Ave, Glenwood Ave, Oak Grove Ave, and Ravenswood Ave. **2 tracks** - 1. Grade separations at Fair Oaks Lane, Watkins Ave, Encinal Ave, Glenwood Ave, Oak Grove Ave, and Ravenswood Ave. 2. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** 1. Caltrain Atherton and Menlo Park stations; **2 tracks** - 1. Caltrain Atherton and Menlo Park stations; 2. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** 1. Caltrain Atherton and Menlo Park stations; **2 tracks** - 1. Caltrain Atherton and Menlo Park stations; 2. *Must be combined with 2 track deep tunnel option.*	**2 tracks -** 1. *Must be combined with 2 track aerial viaduct, at grade, trench, or tunnel option.*	**4 tracks -** No notes. **2 tracks -** 1. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** No notes. **2 tracks -** 1. *Must be combined with 2 track deep tunnel option.*	**2 tracks -** 1. *Must be combined with 2 track at grade, trench, or tunnel option.*

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 tracks)				At-Grade (4 tracks)				Tunnel (HST only)			
Subsection 5			Base: 2009 (3rd Quarter)	A				A				A			
				Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 1565 + 00	Start: 1605 + 00	0.76 Miles	
Subsection Details						Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1565 + 00	End: 1605 + 00	0.76 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.76	$ 1,591,079			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.76 Miles	$ 3,560,727
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.76	$ 3,182,158			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0.00 Miles	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			6.31	$ 58,153			6.31	$ 58,153			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			6.31	$ 38,769			6.31	$ 38,769			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.76	$ 109,382			0.76	$ 109,382			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 10,315				$ 10,315				$ -
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208			0	$ -			0	$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408												$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -			0.76	$ 80,785,842
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -				$ -				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -			0.76	$ 8,976,291
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -				$ -			0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -				$ -				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -			0	$ -			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816			0	$ -			0	$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -
	Building Items														

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 tracks)				At-Grade (4 tracks)				Tunnel (HST only)			
Subsection 5			Base: 2009 (3rd Quarter)	A				A				A			
				Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 1565 + 00	Start: 1605 + 00	0.76 Miles	
Subsection Details						Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1565 + 00	End: 1605 + 00	0.76 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1565 + 00	End: 1605 + 00	0.76 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -			0	$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -				$ -
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 54,231				$ 101,963				$ 2,799,686
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.76	$ 1,568,182			0.76	$ 1,568,182			0.76	$ 1,568,182
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.76	$ 409,091			0.76	$ 409,091			0.76	$ 409,091
3	Wayside Protection System	Mile	$ 108,000			0.76	$ 81,818			0.76	$ 81,818			0.76	$ 81,818
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.76	$ 886,364			0.76	$ 886,364			0.76	$ 886,364
2	Traction Power Distribution	Mile	$ 1,485,000			0.76	$ 1,125,000			0.76	$ 1,125,000			0.76	$ 1,125,000
	Subtotal						$ 5,932,383				$ 7,571,194				$ 100,193,001
	Program Implementation Costs (per screening)						$ 1,512,758				$ 1,930,654				$ 25,549,215
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 1,483,096				$ 1,892,798				$ 25,048,250
	Subtotal						$ 8,928,236				$ 11,394,647				$ 150,790,466
	Subtotal (Rounded)						$ 9,000,000				$ 11,000,000				$ 151,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Aerial (2 tracks)				Aerial (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 5		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			1.70	$ 3,579,927			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			1.70	$ 8,011,636			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			1.70	$ 7,159,855
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			1.70	$ 16,023,273			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			26.52	$ 244,408			26.52	$ 244,408			26.52	$ 244,408			26.52	$ 244,408
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			26.52	$ 162,939			26.52	$ 162,939			26.52	$ 162,939			26.52	$ 162,939
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			1.70	$ 246,109			1.70	$ 246,109
8	Special Drainage Facilities	5% Earthwork					$ 20,367				$ 20,367				$ 32,673				$ 32,673
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			1.70	$ 59,612,509			1.70	$ 59,612,509			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208																
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -			0	$ -			0	$ -			0	$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -			0	$ -			0	$ -			6	$ 16,558,080
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -			6	$ 12,177,408				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Aerial (2 tracks)				Aerial (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 5		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00	0.00 Miles	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -			2	$ 30,000,000
	Caltrain Passenger Station - On Structure	Each	$15,000,000			2	$ 30,000,000			2	$ 30,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -								
1	Dense Urban	Acre					B				B								
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,941,556				$ 3,181,905				$ 493,304				$ 1,632,122
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.70	$ 3,528,409			1.70	$ 3,528,409			1.70	$ 3,528,409			1.70	$ 3,528,409
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.70	$ 920,455			1.70	$ 920,455			1.70	$ 920,455			1.70	$ 920,455
3	Wayside Protection System	Mile	$ 108,000			1.70	$ 184,091			1.70	$ 184,091			1.70	$ 184,091			1.70	$ 184,091
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.70	$ 1,994,318			1.70	$ 1,994,318			1.70	$ 1,994,318			1.70	$ 1,994,318
2	Traction Power Distribution	Mile	$ 1,485,000			1.70	$ 2,531,250			1.70	$ 2,531,250			1.70	$ 2,531,250			1.70	$ 2,531,250
	Subtotal						$ 110,151,939				$ 118,403,924				$ 26,095,291				$ 65,194,708
	Program Implementation Costs (per screening)						$ 28,088,744				$ 30,193,001				$ 6,654,299				$ 16,624,651
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 27,537,985				$ 29,600,981				$ 6,523,823				$ 16,298,677
	Subtotal						$ 165,778,668				$ 178,197,906				$ 39,273,413				$ 98,118,036
	Subtotal (Rounded)						$ 166,000,000				$ 178,000,000				$ 39,000,000				$ 98,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench (2 tracks)				Open Trench (4 tracks)				Covered Trench (2 tracks)				Covered Trench (4 tracks)			
	Subsection 5		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			1.70	$ 8,011,636			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			1.70	$ 8,011,636			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0.00	$ -			1.70	$ 16,023,273
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			1.70	$ 16,023,273			0	$ -			0	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			22.73	$ 209,455			22.73	$ 209,455			22.73	$ 209,455			22.73	$ 209,455
2	Total Cut	CY	$ 6.00			733333.33	$ 4,400,000			733333.33	$ 4,400,000			733333.33	$ 4,400,000			733333.33	$ 4,400,000
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -				$ -				$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			733333.33	$ 9,533,333			733333.33	$ 9,533,333			733333.33	$ 9,533,333			733333.33	$ 9,533,333
6	Landscape erosion Control	Acre	$ 6,144			22.73	$ 139,636			22.73	$ 139,636			22.73	$ 139,636			22.73	$ 139,636
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			1.70	$ 246,109			1.70	$ 246,109			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 726,427				$ 726,427				$ 714,121				$ 714,121
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			1.70	$ 223,714,909			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			1.70	$ 134,393,018			1.70	$ 134,393,018			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			0.00	$ -			1.70	$ 20,196,655			1.70	$ 20,196,655
17	Retaining Walls	Mile	$ 8,613,888			1.70	$ 14,682,764			1.70	$ 14,682,764			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			1.70	$ 10,069,527			1.70	$ 10,069,527			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -			0.00	$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			1.70	$ 447,429,818
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -			0	$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -			0	$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench (2 tracks)				Open Trench (4 tracks)				Covered Trench (2 tracks)				Covered Trench (4 tracks)			
	Subsection 5		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles		Start: 1605 + 00	Start: 1695 + 00	1.70 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1605 + 00	End: 1695 + 00	1.70 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000			2	$ 30,000,000			2	$ 30,000,000			2	$ 30,000,000			2	$ 30,000,000
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -				$ -				$ -
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 6,372,357				$ 6,612,706				$ 8,907,592				$ 15,859,389
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.70	$ 3,528,409			1.70	$ 3,528,409			1.70	$ 3,528,409			1.70	$ 3,528,409
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.70	$ 920,455			1.70	$ 920,455			1.70	$ 920,455			1.70	$ 920,455
3	Wayside Protection System	Mile	$ 108,000			1.70	$ 184,091			1.70	$ 184,091			1.70	$ 184,091			1.70	$ 184,091
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.70	$ 1,994,318			1.70	$ 1,994,318			1.70	$ 1,994,318			1.70	$ 1,994,318
2	Traction Power Distribution	Mile	$ 1,485,000			1.70	$ 2,531,250			1.70	$ 2,531,250			1.70	$ 2,531,250			1.70	$ 2,531,250
	Subtotal						$ 227,942,785				$ 236,194,771				$ 314,985,861				$ 553,664,202
	Program Implementation Costs (per screening)						$ 58,125,410				$ 60,229,667				$ 80,321,394				$ 141,184,372
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 56,985,696				$ 59,048,693				$ 78,746,465				$ 138,416,051
	Subtotal						$ 343,053,892				$ 355,473,130				$ 474,053,720				$ 833,264,625
	Subtotal (Rounded)						$ 343,000,000				$ 355,000,000				$ 474,000,000				$ 833,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 5		Base: 2009 (3rd Quarter)	B			
				Start: 1605 + 00	Start: 1695 + 00	1.70 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			1.70 Miles	$ 8,011,636
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00 Miles	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ -
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312			0.00	$ -
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896			1.70	$ 301,228,800
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			1.70	$ 20,196,655
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624			0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 5		Base: 2009 (3rd Quarter)	B			
				Start: 1605 + 00	Start: 1695 + 00	1.70 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 1605 + 00	End: 1695 + 00	1.70 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Building Items						
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			0	$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000			0	$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						$ -
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 9,883,113
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			1.70	$ 3,528,409
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.70	$ 920,455
3	Wayside Protection System	Mile	$ 108,000			1.70	$ 184,091
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			1.70	$ 1,994,318
2	Traction Power Distribution	Mile	$ 1,485,000			1.70	$ 2,531,250
	Subtotal						$ 348,478,726
	Program Implementation Costs (per screening)						$ 88,862,075
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 87,119,682
	Subtotal						$ 524,460,483
	Subtotal (Rounded)						$ 524,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 tracks)				At-Grade (4 tracks)				Covered Trench (2 tracks)				Covered Trench (4 tracks)			
Subsection 5			Base: 2009 (3rd Quarter)	C				C				C				C			
				Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 1695 + 00	Start: 1765 + 00	1.33 Miles		Start: 1695 + 00	Start: 1765 + 00	1.33 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			1.33	$ 2,784,388			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			1.33	$ 6,231,273			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			1.33	$ 5,568,776			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			1.33	$ 12,462,545
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0	$ -			0	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0.00	$ -			0.00	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0.00	$ -			0.00	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0.00	$ -			0.00	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			13.89	$ 128,010			13.89	$ 128,010			17.68	$ 162,909			17.68	$ 162,909
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			570370.37	$ 3,422,222			570370.37	$ 3,422,222
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -				$ -				$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			570370.37	$ 7,414,815			570370.37	$ 7,414,815
6	Landscape erosion Control	Acre	$ 6,144			13.89	$ 85,340			13.89	$ 85,340			17.68	$ 108,606			17.68	$ 108,606
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			1.33	$ 191,418			1.33	$ 191,418			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 20,238				$ 20,238				$ 555,428				$ 555,428
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208												$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			1.33	$ 194,737,455			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			1.33	$ 174,000,485			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -				$ -				$ -				$ -
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -			0.00	$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			1.33	$ 348,000,970
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -			0	$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -			0	$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -			0	$ -			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 tracks)				At-Grade (4 tracks)				Covered Trench (2 tracks)				Covered Trench (4 tracks)			
Subsection 5			Base: 2009 (3rd Quarter)	C				C				C				C			
				Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 1695 + 00	Start: 1765 + 00	1.33 Miles		Start: 1695 + 00	Start: 1765 + 00	1.33 Miles	
Subsection Details						Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles		Start: 0 + 00	Start: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 0 + 00		0.00 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1695 + 00	End: 1765 + 00	1.33 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement						$ -				$ -				$ -				$ -
1	Dense Urban	Acre					B				B				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 96,282				$ 179,813				$ 11,598,996				$ 11,163,825
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.33	$ 2,744,318			1.33	$ 2,744,318			1.33	$ 2,744,318			1.33	$ 2,744,318
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.33	$ 715,909			1.33	$ 715,909			1.33	$ 715,909			1.33	$ 715,909
3	Wayside Protection System	Mile	$ 108,000			1.33	$ 143,182			1.33	$ 143,182			1.33	$ 143,182			1.33	$ 143,182
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.33	$ 1,551,136			1.33	$ 1,551,136			1.33	$ 1,551,136			1.33	$ 1,551,136
2	Traction Power Distribution	Mile	$ 1,485,000			1.33	$ 1,968,750			1.33	$ 1,968,750			1.33	$ 1,968,750			1.33	$ 1,968,750
	Subtotal						$ 10,428,972				$ 13,296,892				$ 405,355,483				$ 390,414,615
	Program Implementation Costs (per screening)						$ 2,659,388				$ 3,390,707				$ 103,365,648				$ 99,555,727
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 2,607,243				$ 3,324,223				$ 101,338,871				$ 97,603,654
	Subtotal						$ 15,695,603				$ 20,011,822				$ 610,060,002				$ 587,573,996
	Subtotal (Rounded)						$ 16,000,000				$ 20,000,000				$ 610,000,000				$ 588,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 5		Base: 2009 (3rd Quarter)	C			
				Start: 1695 + 00	Start: 1765 + 00	1.33 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 1695 + 00	End: 1765 + 00	1.33 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			1.33 Miles	$ 6,231,273
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00 Miles	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ -
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312			0.00	$ -
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896			1.33	$ 234,289,067
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			1.33	$ 174,000,485
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -
17	Retaining Walls	Mile	$ 8,613,888			1.33	$ 11,419,927
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624			0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			0	$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 5		Base: 2009 (3rd Quarter)	C			
				Start: 1695 + 00	Start: 1765 + 00	1.33 Miles	
	Subsection Details					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	Start: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 1695 + 00	End: 1765 + 00	1.33 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Building Items						
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						$ -
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 12,778,223
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			1.33	$ 2,744,318
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.33	$ 715,909
3	Wayside Protection System	Mile	$ 108,000			1.33	$ 143,182
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			1.33	$ 1,551,136
2	Traction Power Distribution	Mile	$ 1,485,000			1.33	$ 1,968,750
	Subtotal						$ 445,842,270
	Program Implementation Costs (per screening)						$ 113,689,779
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 111,460,567
	Subtotal						$ 670,992,616
	Subtotal (Rounded)						$ 671,000,000

Subsection 6	6A (1.2 miles)			6B (0.7 miles)				
	At Grade	Covered Trench/Tunnel	Deep Tunnel (HST Only)	Aerial Viaduct	At Grade	Open Trench	Covered Trench/Tunnel	Deep Tunnel (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$75 (4 tracks) $48 (2 tracks)	$599	$242 (2 tracks)	$52 (4 tracks) $47 (2 tracks)	$41 (4 tracks) $39 (2 tracks)	$123	$321	$137 (2 tracks)
Acquisition Cost of Permanent ROW	Highest	Lowest	Lowest	Medium	Highest	Medium	Lowest	Lowest
Notes:	**4 tracks -** 1. Grade separation at Palo Alto Avenue. 2. Caltrain Palo Alto station. 3. Potential HST Palo Alto station (costs not included). **2 tracks -** 1. Grade separation at Palo Alto Avenue. 2. Potential HST Palo Alto station (costs not included). 3. *Must be combined with 2 track deep tunnel option.*	1. Raise University Ave, Homer (Pedestrian) Ave, and Embarcadero Road. 2. Caltrain Palo Alto station. 3. Potential HST Palo Alto station (costs not included).	**2 tracks -** 1. Caltrain two tracks to remain at grade. 2. No potential HST Palo Alto station. 3. *Must be combined with 2 track at grade option.*	**4 tracks -** No notes **2 tracks -** 1. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** No notes **2 tracks -** 1. Grade separation at Churchill Avenue. 2. *Must be combined with 2 track deep tunnel option.*			**2 tracks -** 1. Caltrain two tracks to remain at grade or aerial viaduct. 2. *Must be combined with 2 track aerial viaduct or at grade option.*

Subsection 6	6C (1.4 miles)					6D (0.6 miles)				
	Aerial Viaduct	At Grade	Open Trench	Covered Trench/Tunnel	Deep Tunnel (HST Only)	Aerial Viaduct	At Grade	Open Trench	Covered Trench/Tunnel	Deep Tunnel (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$133 (4 tracks) $122 (2 tracks)	$46 (4 tracks) $18 (2 tracks)	$278	$694	$284 (2 tracks)	$44 (4 tracks) $40 (2 tracks)	$112 (4 tracks) $72 (2 tracks)	$112	$272	$114 (2 tracks)
Acquisition Cost of Permanent ROW	Medium	Highest	Medium	Lowest	Lowest	Medium	Highest	Medium	Lowest	Lowest
Notes:	**4 tracks -** No notes **2 tracks -** 1. Caltrain California Avenue station. 2. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** No notes **2 tracks -** 1. Caltrain California Avenue station. 2. *Must be combined with 2 track deep tunnel option.*	1. Caltrain California Avenue station. 2. Raise Oregon Expressway.	1. Caltrain California Avenue station. 2. Raise Oregon Expressway.	**2 tracks -** 1. Caltrain two tracks to remain at grade or aerial viaduct. 2. *Must be combined with 2 track aerial viaduct or at grade option.*	**4 tracks -** No notes **2 tracks -** 1. *Must be combined with 2 track deep tunnel option.*	**4 tracks -** 1. Grade separation at East Meadow Drive and Charleston Road. **2 tracks -** 1. Grade separation at East Meadow Drive and Charleston Road. 2. *Must be combined with 2 track deep tunnel option.*			**2 tracks** - 1. Caltrain two tracks to remain at grade or aerial viaduct. 2. *Must be combined with 2 track aerial viaduct or at grade option.*

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 tracks)				At-Grade (4 tracks)				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	A				A				A				A			
				Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			1.21	$ 2,545,726			0.00	$ -			0	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0	$ -			1.21	$ 5,697,164
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.000000	$ -			1.21	$ 5,091,452			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0	$ -			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			1.21	$ 11,394,327			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0.00	$ -			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			9.55	$ 88,013			16.16	$ 148,945			16.16	$ 148,945			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			1042962.96	$ 6,257,778			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			521481.48	$ 3,128,889			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			521481.48	$ 6,779,259			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			1.21	$ 175,011			1.21	$ 175,011			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 13,151				$ 16,198				$ 815,744				$ -
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0	$ -			0	$ -			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.02	$ 1,743,360			0.02	$ 1,743,360				$ -			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -							1.21	$ 129,257,348
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -				$ -							0.00	$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -			0	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -			0	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -			0	$ -			1.21	$ 14,362,065			1.21	$ 14,362,065
17	Retaining Walls	Mile	$ 8,613,888			0	$ -			0	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -			0	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -			0.00	$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -			0.00	$ -			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -				$ -							0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -				$ -								$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			1.21	$ 318,172,315			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			1	$ 19,926,528			1	$ 19,926,528				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			3	$ 4,196,352				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade (2 tracks)				At-Grade (4 tracks)				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	A				A				A				A			
				Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1765 + 00	End: 1829 + 00	1.21 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			0	$ -			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -			0	$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -			1	$ 15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 734,754				$ 1,263,045				$ 11,407,670				$ 4,500,418
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.21	$ 2,509,091			1.21	$ 2,509,091			1.21	$ 2,509,091			1.21	$ 2,509,091
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.21	$ 654,545			1.21	$ 654,545			1.21	$ 654,545			1.21	$ 654,545
3	Wayside Protection System	Mile	$ 108,000			1.21	$ 130,909			1.21	$ 130,909			1.21	$ 130,909			1.21	$ 130,909
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.21	$ 1,418,182			1.21	$ 1,418,182			1.21	$ 1,418,182			1.21	$ 1,418,182
2	Traction Power Distribution	Mile	$ 1,485,000			1.21	$ 1,800,000			1.21	$ 1,800,000			1.21	$ 1,800,000			1.21	$ 1,800,000
	Subtotal						$ 31,739,270				$ 49,877,266				$ 398,176,072				$ 161,027,066
	Program Implementation Costs (per screening)						$ 8,093,514				$ 12,718,703				$ 101,534,898				$ 41,061,902
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 7,934,818				$ 12,469,317				$ 99,544,018				$ 40,256,766
	Subtotal						$ 47,767,602				$ 75,065,286				$ 599,254,989				$ 242,345,734
	Subtotal (Rounded)						$ 48,000,000				$ 75,000,000				$ 599,000,000				$ 242,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (2 tracks)				Elevated Viaduct (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 6		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0	$ -			0	$ -			0.68	$ 1,431,971			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.68	$ 3,204,655			0	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0	$ -			0	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0	$ -			0	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.68	$ 2,863,942
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.68	$ 6,409,309			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			0	$ -			0	$ -			5.37	$ 49,507			9.09	$ 83,782
2	Total Cut	CY	$ 6.00			0	$ -			0	$ -			0	$ -			0	$ -
3	Total Fill	CY	$ 6.00			0	$ -			0	$ -			0	$ -			0	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.68	$ 98,444			0.68	$ 98,444
8	Special Drainage Facilities	5% Earthwork					$ -				$ -				$ 7,398				$ 9,111
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.68	$ 23,845,004			0.68	$ 23,845,004			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -			0	$ -			0	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -			0	$ -			0	$ -			0	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -			0	$ -			0	$ -			0	$ -
17	Retaining Walls	Mile	$ 8,613,888			0	$ -			0	$ -			0	$ -			0	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -			0	$ -			0	$ -			0	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -			1	$ 19,926,528			1	$ 19,926,528
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (2 tracks)				Elevated Viaduct (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
Subsection 6			Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 811,490				$ 907,629				$ 645,415				$ 689,454
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			0.68	$ 1,411,364			0.68	$ 1,411,364			0.68	$ 1,411,364			0.68	$ 1,411,364
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.68	$ 368,182			0.68	$ 368,182			0.68	$ 368,182			0.68	$ 368,182
3	Wayside Protection System	Mile	$ 108,000			0.68	$ 73,636			0.68	$ 73,636			0.68	$ 73,636			0.68	$ 73,636
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			0.68	$ 797,727			0.68	$ 797,727			0.68	$ 797,727			0.68	$ 797,727
2	Traction Power Distribution	Mile	$ 1,485,000			0.68	$ 1,012,500			0.68	$ 1,012,500			0.68	$ 1,012,500			0.68	$ 1,012,500
	Subtotal						$ 31,524,557				$ 34,825,351				$ 25,822,672				$ 27,334,670
	Program Implementation Costs (per screening)						$ 8,038,762				$ 8,880,465				$ 6,584,781				$ 6,970,341
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 7,881,139				$ 8,706,338				$ 6,455,668				$ 6,833,667
	Subtotal						$ 47,444,458				$ 52,412,154				$ 38,863,121				$ 41,138,678
	Subtotal (Rounded)						$ 47,000,000				$ 52,000,000				$ 39,000,000				$ 41,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	B				B				B			
				Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.68	$ 3,196,109
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.68	$ 6,409,309			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.68	$ 6,409,309			0.00	$ -			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			9.09	$ 83,782			9.09	$ 83,782			0.00	$ -
2	Total Cut	CY	$ 6.00			220000.00	$ 1,320,000			586666.67	$ 3,520,000			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			293333.33	$ 1,760,000			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			220000.00	$ 2,860,000			293333.33	$ 3,813,333			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			9.09	$ 55,855			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.68	$ 98,444			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 220,904				$ 458,856				$ -
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0	$ -			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -			0.01	$ 697,344			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312											0.68	$ 72,707,258
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.68	$ 53,757,207			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			0.68	$ 8,078,662			0.68	$ 8,078,662
17	Retaining Walls	Mile	$ 8,613,888			0.68	$ 5,873,105			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.68	$ 4,027,811			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624											0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.68	$ 178,971,927			0.00	$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			1	$ 1,398,784			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -
	Building Items														

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	B				B				B			
				Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1829 + 00	End: 1865 + 00	0.68 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,283,156				$ 6,113,796				$ 2,540,381
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.68	$ 1,411,364			0.68	$ 1,411,364			0.68	$ 1,411,364
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.68	$ 368,182			0.68	$ 368,182			0.68	$ 368,182
3	Wayside Protection System	Mile	$ 108,000			0.68	$ 73,636			0.68	$ 73,636			0.68	$ 73,636
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.68	$ 797,727			0.68	$ 797,727			0.68	$ 797,727
2	Traction Power Distribution	Mile	$ 1,485,000			0.68	$ 1,012,500			0.68	$ 1,012,500			0.68	$ 1,012,500
	Subtotal						$ 82,051,766				$ 213,570,419				$ 90,883,163
	Program Implementation Costs (per screening)						$ 20,923,200				$ 54,460,457				$ 23,175,207
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 20,512,941				$ 53,392,605				$ 22,720,791
	Subtotal						$ 123,487,908				$ 321,423,480				$ 136,779,160
	Subtotal (Rounded)						$ 123,000,000				$ 321,000,000				$ 137,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (2 tracks)				Elevated Viaduct (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 6		Base: 2009 (3rd Quarter)	C				C				C				C			
				Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0	$ -			0	$ -			1.42	$ 2,983,273			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			1.42	$ 6,676,364			0	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0	$ -			0	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0	$ -			0	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			1.42	$ 5,966,545
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			1.42	$ 13,352,727			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			11.19	$ 103,140			18.94	$ 174,545			11.19	$ 103,140			18.94	$ 174,545
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0	$ -			0	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0	$ -			0	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			1.42	$ 205,091			1.42	$ 205,091
8	Special Drainage Facilities	5% Earthwork					$ 5,157				$ 8,727				$ 15,412				$ 18,982
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			1.42	$ 49,677,091			1.42	$ 49,677,091			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -			0.01	$ 871,680			0.01	$ 871,680
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												$ -				$ -
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												$ -				$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -			0	$ -			0	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -			0	$ -			0	$ -			0	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -			0	$ -			0	$ -			0	$ -
17	Retaining Walls	Mile	$ 8,613,888			0	$ -			0	$ -			0	$ -			0	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -			0	$ -			0	$ -			0	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												$ -				$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (2 tracks)				Elevated Viaduct (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
Subsection 6			Base: 2009 (3rd Quarter)	C				C				C				C			
				Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -			0	$ -			1	$ 15,000,000
	Caltrain Passenger Station - On Structure	Each	$15,000,000			1	$ 15,000,000			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
1	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,143,853				$ 2,346,393				$ 125,358				$ 667,105
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.42	$ 2,940,341			1.42	$ 2,940,341			1.42	$ 2,940,341			1.42	$ 2,940,341
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.42	$ 767,045			1.42	$ 767,045			1.42	$ 767,045			1.42	$ 767,045
3	Wayside Protection System	Mile	$ 108,000			1.42	$ 153,409			1.42	$ 153,409			1.42	$ 153,409			1.42	$ 153,409
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.42	$ 1,661,932			1.42	$ 1,661,932			1.42	$ 1,661,932			1.42	$ 1,661,932
2	Traction Power Distribution	Mile	$ 1,485,000			1.42	$ 2,109,375			1.42	$ 2,109,375			1.42	$ 2,109,375			1.42	$ 2,109,375
	Subtotal						$ 81,237,707				$ 88,191,586				$ 11,936,056				$ 30,536,051
	Program Implementation Costs (per screening)						$ 20,715,615				$ 22,488,854				$ 3,043,694				$ 7,786,693
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 20,309,427				$ 22,047,896				$ 2,984,014				$ 7,634,013
	Subtotal						$ 122,262,749				$ 132,728,337				$ 17,963,764				$ 45,956,757
	Subtotal (Rounded)						$122,000,000				$133,000,000				$ 18,000,000				$ 46,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	C				C				C			
				Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			1.42	$ 6,676,364
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			1.42	$ 13,352,727			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			1.42	$ 13,352,727			0.00	$ -			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			18.94	$ 174,545			18.94	$ 174,545			0.00	$ -
2	Total Cut	CY	$ 6.00			458333.33	$ 2,750,000			1222222.22	$ 7,333,333			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			611111.11	$ 3,666,667			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			458333.33	$ 5,958,333			611111.11	$ 7,944,444			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			18.94	$ 116,364			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			1.42	$ 205,091			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 460,217				$ 955,949				$ -
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0	$ -			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -			0.01	$ 697,344			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312											1.42 Miles	$ 151,473,455
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			1.42	$ 111,994,182			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			1.42	$ 16,830,545			1.42	$ 16,830,545
17	Retaining Walls	Mile	$ 8,613,888			1.42	$ 12,235,636			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			1.42	$ 8,391,273			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624											0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			1.42	$ 372,858,182			0.00	$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784			1	$ 1,398,784			1	$ 1,398,784			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -
	Building Items														

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	C				C				C			
				Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1865 + 00	End: 1940 + 00	1.42 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -			0	$ -
1	Caltrain Passenger Station - In Trench	Each	$15,000,000			1	$ 15,000,000			1	$ 15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 5,161,115				$ 13,206,376				$ 5,270,331
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			1.42	$ 2,940,341			1.42	$ 2,940,341			1.42	$ 2,940,341
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.42	$ 767,045			1.42	$ 767,045			1.42	$ 767,045
3	Wayside Protection System	Mile	$ 108,000			1.42	$ 153,409			1.42	$ 153,409			1.42	$ 153,409
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			1.42	$ 1,661,932			1.42	$ 1,661,932			1.42	$ 1,661,932
2	Traction Power Distribution	Mile	$ 1,485,000			1.42	$ 2,109,375			1.42	$ 2,109,375			1.42	$ 2,109,375
	Subtotal						$ 184,830,369				$ 461,051,000				$ 188,580,141
	Program Implementation Costs (per screening)						$ 47,131,744				$ 117,568,005				$ 48,087,936
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 46,207,592				$ 115,262,750				$ 47,145,035
	Subtotal						$ 278,169,705				$ 693,881,755				$ 283,813,112
	Subtotal (Rounded)						$ 278,000,000				$ 694,000,000				$ 284,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (2 tracks)				Elevated Viaduct (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 6		Base: 2009 (3rd Quarter)	D				D				D				D			
				Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0	$ -			0	$ -			0.57	$ 1,193,309			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.57	$ 2,670,545			0	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0	$ -			0	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0	$ -			0	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.57	$ 2,386,618
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.57	$ 5,341,091			0	$ -			0	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			0	$ -			0	$ -			0	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			4.48	$ 41,256			7.58	$ 69,818			0.00	$ -			0.00	$ -
2	Total Cut	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.57	$ 82,036			0.57	$ 82,036
8	Special Drainage Facilities	5% Earthwork					$ 2,063				$ 3,491				$ 4,102				$ 4,102
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.57	$ 19,870,836			0.57	$ 19,870,836			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -			0.01	$ 871,680			0.01	$ 871,680
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312												$ -				$ -
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												$ -				$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -			0	$ -			0	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -			0	$ -			0	$ -			0	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -			0	$ -			0	$ -			0	$ -
17	Retaining Walls	Mile	$ 8,613,888			0	$ -			0	$ -			0	$ -			0	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -			0	$ -			0	$ -			0	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624												$ -				$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -			2	$ 39,853,056			2	$ 39,853,056
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (2 tracks)				Elevated Viaduct (4 tracks)				At-Grade (2 tracks)				At-Grade (4 tracks)			
	Subsection 6		Base: 2009 (3rd Quarter)	D				D				D				D			
				Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Building Items																		
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 677,541				$ 758,557				$ 1,260,125				$ 1,295,925
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			0.57	$ 1,176,136			0.57	$ 1,176,136			0.57	$ 1,176,136			0.57	$ 1,176,136
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.57	$ 306,818			0.57	$ 306,818			0.57	$ 306,818			0.57	$ 306,818
3	Wayside Protection System	Mile	$ 108,000			0.57	$ 61,364			0.57	$ 61,364			0.57	$ 61,364			0.57	$ 61,364
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			0.57	$ 664,773			0.57	$ 664,773			0.57	$ 664,773			0.57	$ 664,773
2	Traction Power Distribution	Mile	$ 1,485,000			0.57	$ 843,750			0.57	$ 843,750			0.57	$ 843,750			0.57	$ 843,750
	Subtotal						$ 26,315,083				$ 29,096,634				$ 46,317,150				$ 47,546,258
	Program Implementation Costs (per screening)						$ 6,710,346				$ 7,419,642				$ 11,810,873				$ 12,124,296
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 6,578,771				$ 7,274,159				$ 11,579,287				$ 11,886,565
	Subtotal						$ 39,604,200				$ 43,790,435				$ 69,707,310				$ 71,557,118
	Subtotal (Rounded)						$ 40,000,000				$ 44,000,000				$ 70,000,000				$ 72,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	D				D				D			
				Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.57	$ 2,670,545
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.57	$ 5,341,091			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.57	$ 5,341,091			0.00	$ -			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			7.58	$ 69,818			7.58	$ 69,818			0.00	$ -
2	Total Cut	CY	$ 6.00			488888.89	$ 2,933,333			488888.89	$ 2,933,333			0.00	$ -
3	Total Fill	CY	$ 6.00			0.00	$ -			244444.44	$ 1,466,667			0.00	$ -
4	Borrow	CY	$ 13.00			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 13.00			488888.89	$ 6,355,556			244444.44	$ 3,177,778			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			7.58	$ 46,545			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.57	$ 82,036			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 474,364				$ 382,380				$ -
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0	$ -			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.01	$ 697,344			0.01	$ 697,344			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312											0.57	$ 60,589,382
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896												
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -			0	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.57	$ 44,797,673			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			0.57	$ 6,732,218			0.57	$ 6,732,218
17	Retaining Walls	Mile	$ 8,613,888			0.57	$ 4,894,255			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.57	$ 3,356,509			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624											0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792												$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.57	$ 149,143,273			0.00	$ -
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -			2	$ 2,797,568				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -

	COST ELEMENTS	UNIT	UNIT PRICE	Open Trench				Covered Trench				Tunnel (HST only)			
	Subsection 6		Base: 2009 (3rd Quarter)	D				D				D			
				Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Subsection Details					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 1940 + 00	End: 1970 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Building Items														
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement														
1	Dense Urban	Acre					$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,071,456				$ 5,182,244				$ 2,120,685
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			0.57	$ 1,176,136			0.57	$ 1,176,136			0.57	$ 1,176,136
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.57	$ 306,818			0.57	$ 306,818			0.57	$ 306,818
3	Wayside Protection System	Mile	$ 108,000			0.57	$ 61,364			0.57	$ 61,364			0.57	$ 61,364
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			0.57	$ 664,773			0.57	$ 664,773			0.57	$ 664,773
2	Traction Power Distribution	Mile	$ 1,485,000			0.57	$ 843,750			0.57	$ 843,750			0.57	$ 843,750
	Subtotal						$ 74,172,821				$ 180,976,555				$ 75,863,015
	Program Implementation Costs (per screening)						$ 18,914,069				$ 46,149,021				$ 19,345,069
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 18,543,205				$ 45,244,139				$ 18,965,754
	Subtotal						$ 111,630,096				$ 272,369,715				$ 114,173,838
	Subtotal (Rounded)						$ 112,000,000				$ 272,000,000				$ 114,000,000

Subsection 7	7A & 7B (2.9 miles)				7C & 7D (2.8 miles)			
	Aerial Viaduct	At Grade	Open Trench	Covered Trench/Tunnel	Aerial Viaduct	At Grade	Open Trench	Covered Trench/Tunnel
Capital Cost ($2009 in Millions) does not include ROW	$344	$155	$615	$1,433	$99	$107	$540	$1,323
Acquisition Cost of Permanent ROW	Medium	Highest	Medium	Lowest	Medium	Highest	Medium	Lowest
Notes:	1. Caltrain San Antonio and Mountain View stations. 2. Potential HST Mountain View station (costs not included). 3. Convert Shoreline Blvd to an underpass.	1. Caltrain San Antonio and Mountain View stations. 2. Potential HST Mountain View station (costs not included). 3. Grade separation at Rengstorff Ave and Castro St.	1. Caltrain San Antonio and Mountain View stations. 2. Potential HST Mountain View station (costs not included).	1. Caltrain San Antonio and Mountain View stations. 2. Potential HST Mountain View station (costs not included).	1. Caltrain Sunnyvale station. 2. Aerial only in the vicinity of Mary Ave.	1. Caltrain Sunnyvale station. 2. Grade separations at Mary Ave and Sunnyvale Ave.	1. Caltrain Sunnyvale station.	1. Caltrain Sunnyvale station.

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				At-Grade				Open Trench				Covered Trench			
	Subsection 7		Base: 2009 (3rd Quarter)	A				A				A				A			
				Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			1.04	$ 2,187,733			0.00	$ -			0	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			1.04	$ 9,792,000			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0	$ -			0.00	$ -			1.04	$ 9,792,000
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0	$ -			1.04	$ 9,792,000			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			13.89	$ 128,000			8.21	$ 75,636			13.89	$ 128,000			13.89	$ 128,000
2	Total Cut	CY	$ 6.45			0	$ -			0.00	$ -			448148.15	$ 2,891,093			1120370.37	$ 7,227,733
3	Total Fill	CY	$ 6.29			0	$ -			0.00	$ -			0.00	$ -			672222.22	$ 4,228,224
4	Borrow	CY	$ 12.58			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 12.58			0.00	$ -			0.00	$ -			448148.15	$ 5,637,632			448148.15	$ 5,637,632
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			13.89	$ 85,333			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			1.04	$ 150,400			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 6,400				$ 3,782				$ 444,623				$ 861,079
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			1.04	$ 36,429,867			0	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.02	$ 1,743,360			0.01	$ 871,680				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 792,000,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312								$ -								
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896								$ -								
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0	$ -			1.04	$ 82,129,067			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			0	$ -			0.00	$ -			1.04	$ 12,342,400
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0	$ -			1.04	$ 8,972,800			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0	$ -			1.04	$ 6,153,600			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 1,584,000,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624								$ -								
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792								$ -								
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			1.04	$ 273,429,333
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			1	$ 19,926,528			0	$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			3	$ 4,196,352				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				At-Grade				Open Trench				Covered Trench			
Subsection 7			Base: 2009 (3rd Quarter)	A				A				A				A			
				Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 1970 + 00	End: 2025 + 00	1.04 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			1	$ 15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -			1	$ 15,000,000			1	$ 15,000,000
3	Maintenance Facility	Each	$ -				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre													$ -				
1	Dense Urban	Acre					$ -				$ -				$ -				
2	Urban	Acre					$ -				$ -				$ -				
3	Dense Suburban	Acre					$ -				$ -				$ -				
4	Suburban	Acre					$ -				$ -				$ -				
5	Undeveloped	Acre					$ -				$ -				$ -				
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														$ -				
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,490,785				$ 544,165				$ 4,067,427				$ 9,859,392
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.04	$ 2,156,250			1.04	$ 2,156,250			1.04	$ 2,156,250			1.04	$ 2,156,250
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.04	$ 562,500			1.04	$ 562,500			1.04	$ 562,500			1.04	$ 562,500
3	Wayside Protection System	Mile	$ 108,000			1.04	$ 112,500			1.04	$ 112,500			1.04	$ 112,500			1.04	$ 112,500
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.04	$ 1,218,750			1.04	$ 1,218,750			1.04	$ 1,218,750			1.04	$ 1,218,750
2	Traction Power Distribution	Mile	$ 1,485,000			1.04	$ 1,546,875			1.04	$ 1,546,875			1.04	$ 1,546,875			1.04	$ 1,546,875
	Subtotal						$ 91,113,814				$ 24,279,871				$ 145,245,202				$ 344,102,669
	Program Implementation Costs (per screening)						$ 23,234,023				$ 6,191,367				$ 37,037,527				$ 87,746,181
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 22,778,454				$ 6,069,968				$ 36,311,301				$ 86,025,667
	Subtotal						$ 137,126,291				$ 36,541,207				$ 218,594,029				$ 517,874,517
	Subtotal (Rounded)						$ 137,000,000				$ 37,000,000				$ 219,000,000				$ 518,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				At-Grade				Open Trench				Covered Trench			
	Subsection 7		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			1.89	$ 7,955,394			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			1.89	$ 17,803,636			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0	$ -			0.00	$ -			1.89	$ 17,803,636
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0	$ -			1.89	$ 17,803,636			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			25.25	$ 232,727			0.00	$ -			25.25	$ 232,727			25.25	$ 232,727
2	Total Cut	CY	$ 6.45			0	$ -			0	$ -			1629629.63	$ 10,513,067			1629629.63	$ 10,513,067
3	Total Fill	CY	$ 6.29			0	$ -			0	$ -			0.00	$ -			814814.81	$ 5,125,120
4	Borrow	CY	$ 12.58			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 12.58			0.00	$ -			0.00	$ -			1629629.63	$ 20,500,480			814814.81	$ 10,250,240
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			25.25	$ 155,152			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			1.89	$ 273,455			1.89	$ 273,455			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 11,636				$ 13,673				$ 1,583,744				$ 1,306,058
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			1.89	$ 66,236,121			0	$ -			0.00	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.02	$ 1,743,360			0.03	$ 2,615,040				$ -			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0	$ -			0.00	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312																
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0.00	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0	$ -			1.89	$ 149,325,576			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			0	$ -			0.00	$ -			1.89	$ 22,440,727
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0	$ -			1.89	$ 16,314,182			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0	$ -			1.89	$ 11,188,364			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624																
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			1.89	$ 497,144,242
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			1	$ 19,926,528			2	$ 39,853,056				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			1	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328			0	$ -			0	$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			2	$ 2,797,568			0	$ -
8	Minor Crossing Closures	ea	$ 87,040			1	$ 87,040			1	$ 87,040			1	$ 87,040			0	$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				At-Grade				Open Trench				Covered Trench			
	Subsection 7		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2025 + 00	End: 2125 + 00	1.89 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -			1	$ -			1	$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			1	$ 15,000,000			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -			0	$ -			1	$ 15,000,000
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -			1	$ 15,000,000			0	$ -
3	Maintenance Facility	Each	$ -				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre																	
1	Dense Urban	Acre					$ -												
2	Urban	Acre					$ -												
3	Dense Suburban	Acre					$ -												
4	Suburban	Acre					$ -												
5	Undeveloped	Acre					$ -												
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 3,714,022				$ 1,973,930				$ 7,373,250				$ 17,415,395
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.89	$ 3,920,455			1.89	$ 3,920,455			1.89	$ 3,920,455			1.89	$ 3,920,455
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.89	$ 1,022,727			1.89	$ 1,022,727			1.89	$ 1,022,727			1.89	$ 1,022,727
3	Wayside Protection System	Mile	$ 108,000			1.89	$ 204,545			1.89	$ 204,545			1.89	$ 204,545			1.89	$ 204,545
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.89	$ 2,215,909			1.89	$ 2,215,909			1.89	$ 2,215,909			1.89	$ 2,215,909
2	Traction Power Distribution	Mile	$ 1,485,000			1.89	$ 2,812,500			1.89	$ 2,812,500			1.89	$ 2,812,500			1.89	$ 2,812,500
	Subtotal						$ 137,690,887				$ 77,947,723				$ 263,324,376				$ 608,104,693
	Program Implementation Costs (per screening)						$ 35,111,176				$ 19,876,669				$ 67,147,716				$ 155,066,697
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 34,422,722				$ 19,486,931				$ 65,831,094				$ 152,026,173
	Subtotal						$ 207,224,786				$ 117,311,324				$ 396,303,185				$ 915,197,563
	Subtotal (Rounded)						$ 207,000,000				$ 117,000,000				$ 396,000,000				$ 915,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Open Trench				Covered Trench			
	Subsection 7		Base: 2009 (3rd Quarter)	C				C				C			
				Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total														
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total														
	Four-track Section - At Grade	Mile	$ 4,200,448			1.12	$ 4,693,682			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0	$ -			0.00	$ -			1.12	$ 10,504,145
	Four-Track Section - In Trench	Mile	$ 9,400,320			0	$ -			1.12	$ 10,504,145			0.00	$ -
	Single Track - Total														
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -
	Earthwork Items														
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -			14.90	$ 137,309			14.90	$ 137,309
2	Total Cut	CY	$ 6.45			0	$ -			961481.48	$ 6,202,709			961481.48	$ 6,202,709
3	Total Fill	CY	$ 6.29			0	$ -			0.00	$ -			480740.74	$ 3,023,821
4	Borrow	CY	$ 12.58			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 12.58			0.00	$ -			961481.48	$ 12,095,283			480740.74	$ 6,047,642
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			14.90	$ 91,539			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			1.12	$ 161,338			1.12	$ 161,338			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 8,067				$ 934,409				$ 770,574
	Structures, Tunnels, Walls														
1	Standard Structure	Mile	$ 34,972,672			0.00	$ -			0.00	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -			0.00	$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -			0.00	$ -			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -								
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -								
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -			0.00	$ -			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -			1.12	$ 88,102,090			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -			0.00	$ -			1.12	$ 13,240,029
17	Retaining Walls	Mile	$ 8,613,888			0	$ -			1.12	$ 9,625,367			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -			1.12	$ 6,601,135			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -								
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -								
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			1.12	$ 293,315,103
	Grade Separations														
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -			0	$ -			0	$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -			0	$ -			0	$ -
	Building Items														

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade				Open Trench				Covered Trench			
	Subsection 7		Base: 2009 (3rd Quarter)	C				C				C			
				Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 2125 + 00	End: 2184 + 00	1.12 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			0	$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -			0	$ -			0	$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -			0	$ -				$ -
3	Maintenance Facility	Each	$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -
	Rail & Utility Relocation														
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -
	ROW (Not Included)														
	ROW required for each segment														
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre													
1	Dense Urban	Acre					$ -								
2	Urban	Acre					$ -								
3	Dense Suburban	Acre					$ -								
4	Suburban	Acre					$ -								
5	Undeveloped	Acre					$ -								
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 145,893				$ 4,033,660				$ 9,997,240
	System Elements														
1	Signaling (ATC)	Mile	$ 2,070,000			1.12	$ 2,313,068			1.12	$ 2,313,068			1.12	$ 2,313,068
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.12	$ 603,409			1.12	$ 603,409			1.12	$ 603,409
3	Wayside Protection System	Mile	$ 108,000			1.12	$ 120,682			1.12	$ 120,682			1.12	$ 120,682
	Electrification Items														
1	Traction Power supply	Mile	$ 1,170,000			1.12	$ 1,307,386			1.12	$ 1,307,386			1.12	$ 1,307,386
2	Traction Power Distribution	Mile	$ 1,485,000			1.12	$ 1,659,375			1.12	$ 1,659,375			1.12	$ 1,659,375
	Subtotal						$ 11,012,901				$ 144,492,905				$ 349,242,493
	Program Implementation Costs (per screening)						$ 2,808,290				$ 36,845,691				$ 89,056,836
	Program Implementation Costs														
	Contingencies (per screening) (25%)						$ 2,753,225				$ 36,123,226				$ 87,310,623
	Subtotal						$ 16,574,415				$ 217,461,823				$ 525,609,952
	Subtotal (Rounded)						$ 17,000,000				$ 217,000,000				$ 526,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				At-Grade				Open Trench				Covered Trench			
	Subsection 7		Base: 2009	D				D				D				D			
				Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 2245 + 00	End: 2270 + 00	0.47 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 2184 + 00	End: 2245 + 00	1.16 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.00	$ -			0	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.47	$ 1,988,848			1.63	$ 6,841,639			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			1.16	$ 10,860,218			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0	$ -			0.00	$ -			1.63	$ 15,311,127
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0	$ -			1.63	$ 15,311,127			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			15.40	$ 141,964			0.00	$ -			21.72	$ 200,145			21.72	$ 200,145
2	Total Cut	CY	$ 6.45			0	$ -			0.00	$ -			700740.74	$ 4,520,619			1751851.85	$ 11,301,547
3	Total Fill	CY	$ 6.29			0	$ -			0.00	$ -			0.00	$ -			1051111.11	$ 6,611,405
4	Borrow	CY	$ 12.58			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 12.58			0.00	$ -			0.00	$ -			700740.74	$ 8,815,206			700740.74	$ 8,815,206
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			21.72	$ 133,430			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.47	$ 68,364			1.63	$ 235,171			1.63	$ 235,171			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 10,516				$ 11,759				$ 695,229				$ 1,346,415
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			1.16	$ 40,404,034			0.00	$ -			0.00	$ -			0.00	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.02	$ 1,743,360			0.01	$ 871,680				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 174,231,030				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312								$ -								
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896								$ -								
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0	$ -			0.00	$ -			0.00	$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0	$ -			1.63	$ 128,419,995			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			0	$ -			0.00	$ -			1.63	$ 19,299,025
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0	$ -			1.63	$ 14,030,196			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0	$ -			1.63	$ 9,621,993			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 348,462,059				$ -				$ -				$ -				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624								$ -								
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792								$ -								
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			1.63	$ 427,544,048
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528			0	$ -			2	$ 39,853,056				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -				$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -			0	$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -			2	$ 2,797,568				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct				At-Grade				Open Trench				Covered Trench			
	Subsection 7		Base: 2009	D				D				D				D			
				Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 2245 + 00	End: 2270 + 00	0.47 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 2184 + 00	End: 2245 + 00	1.16 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2184 + 00	End: 2270 + 00	1.63 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			0	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -				$ -			1	$ 15,000,000
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -			1	$ 15,000,000				$ -
3	Maintenance Facility	Each	$ -				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement	Acre									$ -				$ -				
1	Dense Urban	Acre					$ -				$ -				$ -				
2	Urban	Acre					$ -				$ -				$ -				
3	Dense Suburban	Acre					$ -				$ -				$ -				
4	Suburban	Acre					$ -				$ -				$ -				
5	Undeveloped	Acre					$ -				$ -				$ -				
	Right-of-Way Required for Stations, Maintenance & Parking Facilities														$ -				
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 1,656,519				$ 1,884,399				$ 5,993,420				$ 15,162,868
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			1.63	$ 3,371,591			1.63	$ 3,371,591			1.63	$ 3,371,591			1.63	$ 3,371,591
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			1.63	$ 879,545			1.63	$ 879,545			1.63	$ 879,545			1.63	$ 879,545
3	Wayside Protection System	Mile	$ 108,000			1.63	$ 175,909			1.63	$ 175,909			1.63	$ 175,909			1.63	$ 175,909
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			1.63	$ 1,905,682			1.63	$ 1,905,682			1.63	$ 1,905,682			1.63	$ 1,905,682
2	Traction Power Distribution	Mile	$ 1,485,000			1.63	$ 2,418,750			1.63	$ 2,418,750			1.63	$ 2,418,750			1.63	$ 2,418,750
	Subtotal						$ 65,625,301				$ 73,449,181				$ 214,525,578				$ 529,343,265
	Program Implementation Costs (per screening)						$ 16,734,452				$ 18,729,541				$ 54,704,022				$ 134,982,532
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 16,406,325				$ 18,362,295				$ 53,631,394				$ 132,335,816
	Subtotal						$ 98,766,077				$ 110,541,017				$ 322,860,994				$ 796,661,613
	Subtotal (Rounded)						$ 99,000,000				###########				$ 323,000,000				$ 797,000,000

Subsection 8	8A (6.4 miles)	8B (0.6 miles)			
	At Grade	Aerial Viaduct (HST Only)	At Grade (HST Only)	Covered Trench/Tunnel (HST Only)	Deep Tunnel (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$125	$40 (2 tracks)	$7 (2 tracks)	$150 (2 tracks)	$113 (2 tracks)
Acquisition Cost of Permanent ROW	Highest	Medium	Highest	Lowest	Lowest
Notes:	1. Portions of existing alignment are 4-track. 2. Caltrain Lawrence station.				

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade			
	Subsection 8		Base: 2009 (3rd Quarter)	A			
				Start: 2270 + 00	End: 2610 + 00	6.44 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 2270 + 00	End: 2610 + 00	6.44 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			6.44	$ 27,048,339
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			85.86	$ 791,273
2	Total Cut	CY	$ 6.45			0	$ -
3	Total Fill	CY	$ 6.29			0	$ -
4	Borrow	CY	$ 12.58			0	$ -
5	Spoil	CY	$ 12.58			0	$ -
6	Landscape erosion Control	Acre	$ 6,144			85.86	$ 527,515
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 65,939
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.04	$ 3,486,720
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704				$ -
17	Retaining Walls	Mile	$ 8,613,888			0	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160				$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680			0	$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816			0	$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -
	Building Items						

	COST ELEMENTS	UNIT	UNIT PRICE	At-Grade			
	Subsection 8		Base: 2009 (3rd Quarter)	A			
				Start: 2270 + 00	End: 2610 + 00	6.44 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 2270 + 00	End: 2610 + 00	6.44 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000			1	$ 15,000,000
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,924,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 1,407,594
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			6.44	$ 13,329,545
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			6.44	$ 3,477,273
3	Wayside Protection System	Mile	$ 108,000			6.44	$ 695,455
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			6.44	$ 7,534,091
2	Traction Power Distribution	Mile	$ 1,485,000			6.44	$ 9,562,500
	Subtotal						$ 82,926,244
	Program Implementation Costs (per screening)						$ 21,146,192
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 20,731,561
	Subtotal						$ 124,803,997
	Subtotal (Rounded)						$ 125,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (HST only)				At-Grade (HST only)				Covered Trench (HST only)				Tunnel (HST only)			
	Subsection 8		Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -			0.57	$ 1,193,309			0	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.57	$ 2,670,545			0.00	$ -			0	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -			0.00	$ -			0.57 Miles	$ 2,670,545			0.57	$ 2,670,545
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -				$ -			0	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -				$ -			0.00	$ -			0.00	$ -
	Single Track - Total									0									
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -				$ -			0	$ -			0	$ -
										0									
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			7.58	$ 69,818			7.58	$ 69,818			0.00	$ -			0.00	$ -
2	Total Cut	CY	$ 6.45			0.00	$ -			0.00	$ -			611111.11	$ 3,942,400			0.00	$ -
3	Total Fill	CY	$ 6.29				$ -				$ -			366666.67	$ 2,306,304			0.00	$ -
4	Borrow	CY	$ 12.58				$ -				$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 12.58				$ -				$ -			244444.44	$ 3,075,072			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			7.58	$ 46,545			7.58	$ 46,545			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 5,818				$ 5,818				$ 466,189				$ -
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			0.57	$ 19,870,836			0	$ -			0.00	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -				$ -				$ -				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312															0.57 Miles	$ 60,589,382
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080				$ -				$ -			0.57	$ 74,571,636				$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -				$ -			0.57	$ 6,732,218			0.57	$ 6,732,218
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -			0.00 Miles	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624															0	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -				$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -			0	$ -				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -				$ -				$ -				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -			0	$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (HST only)				At-Grade (HST only)				Covered Trench (HST only)				Tunnel (HST only)			
Subsection 8			Base: 2009 (3rd Quarter)	B				B				B				B			
				Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles	
Subsection Dedtails						Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
Double Track At-Grade (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Double Track Elevated (Mile)				Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Double Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles		Start: 2610 + 00	End: 2640 + 00	0.57 Miles	
Double Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Construction/Reconstruction At-Grade (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Elevated (Mile)				Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
Four Track Tunnel (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
Four Track Trench (Mile)				Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -			0	$ -				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -				$ -
3	Maintenance Facility	Each	$ 123,924,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 679,907				$ 39,465				$ 2,812,931				$ 2,099,764
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			0.57	$ 1,176,136			0.57	$ 1,176,136			0.57	$ 1,176,136			0.57	$ 1,176,136
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.57	$ 306,818			0.57	$ 306,818			0.57	$ 306,818			0.57	$ 306,818
3	Wayside Protection System	Mile	$ 108,000			0.57	$ 61,364			0.57	$ 61,364			0.57	$ 61,364			0.57	$ 61,364
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			0.57	$ 664,773			0.57	$ 664,773			0.57	$ 664,773			0.57	$ 664,773
2	Traction Power Distribution	Mile	$ 1,485,000			0.57	$ 843,750			0.57	$ 843,750			0.57	$ 843,750			0.57	$ 843,750
	Subtotal						$ 26,396,311				$ 4,407,797				$ 99,630,137				$ 75,144,751
	Program Implementation Costs (per screening)						$ 6,731,059				$ 1,123,988				$ 25,405,685				$ 19,161,911
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 6,599,078				$ 1,101,949				$ 24,907,534				$ 18,786,188
	Subtotal						$ 39,726,449				$ 6,633,734				$ 149,943,356				$ 113,092,850
	Subtotal (Rounded)						$ 40,000,000				$ 7,000,000				$ 150,000,000				$ 113,000,000

Subsection 9(a)	9(a)A (2.3 miles)				9(a)B (0.9 miles)
	Aerial Viaduct (HST Only)	At Grade (HST Only)	Covered Trench/Tunnel (HST Only)	Deep Tunnel (HST Only)	Aerial Viaduct (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$160 (2 tracks)	$54 (2 tracks)	$594 (2 tracks)	$484 (2 tracks)	$248 (2 tracks)
Acquisition Cost of Permanent ROW	Medium	Highest	Lowest	Lowest	Medium
Notes:		1. Caltrain Santa Clara station reconstructed to allow for 2 HST tracks. 2. Convert Hedding St to an underpass.	1. Caltrain Santa Clara station reconstructed to allow for 2 HST tracks.		1. HST San Jose station.

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (HST only)				At-Grade (HST only)				Covered Trench (HST only)				Tunnel (HST only)			
	Subsection 9 (a)		Base: 2009 (3rd Quarter)	A				A				A				A			
				Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total																		
1	Double Track Section - At Grade	Mile	$ 2,100,224			0	$ -			2.27	$ 4,773,236			0.00	$ -			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			2.27	$ 10,682,182			0.00	$ -			0.00	$ -			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0	$ -			0.00	$ -			2.27	$ 10,682,182			2.27	$ 10,682,182
4	Double Track Section - In Trench	Mile	$ 4,700,160			0	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four Track Section - Total																		
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Single Track - Total																		
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -			0	$ -			0	$ -			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -			0	$ -			0	$ -			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -			0	$ -			0	$ -			0	$ -
	Earthwork Items																		
1	Site Preparation - Undeveloped	Acre	$ 9,216			17.91	$ 165,025			17.91	$ 165,025			17.91	$ 165,025			0.00	$ -
2	Total Cut	CY	$ 6.45			0.00	$ -			0.00	$ -			1155555.56	$ 7,454,720			977777.78	$ 6,307,840
3	Total Fill	CY	$ 6.29			0.00	$ -			0.00	$ -			577777.78	$ 3,634,176			0.00	$ -
4	Borrow	CY	$ 12.58			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
5	Spoil	CY	$ 12.58			0.00	$ -			0.00	$ -			577777.78	$ 7,268,352			977777.78	$ 12,300,288
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 8,251				$ 8,251				$ 926,114				$ 930,406
	Structures, Tunnels, Walls																		
1	Standard Structure	Mile	$ 34,972,672			2.27	$ 79,483,345			0.00	$ -			0	$ -			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -				$ -				$ -				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -				$ -				$ -				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -				$ -				$ -				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.01	$ 871,680				$ -			0.01	$ 697,344			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -				$ -				$ -				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -				$ -				$ -				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -				$ -				$ -				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0.00	$ -			0.00	$ -				$ -				$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -				$ -				$ -			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312															2.27	$ 242,357,527
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896																$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -				$ -				$ -				$ -
12	Crossovers	ea	$ 442,368				$ -				$ -				$ -				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0.00	$ -			0.00	$ -			2.27	$ 298,286,545				$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -				$ -				$ -				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.00	$ -			0.00	$ -			2.27	$ 26,928,873			2.27	$ 26,928,873
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -				$ -				$ -				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -				$ -				$ -				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -				$ -				$ -			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624															0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792																$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -			0.00	$ -			0.00	$ -			0.00	$ -
	Grade Separations																		
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -				$ -				$ -				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -			1	$ 2,759,680				$ -				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -				$ -				$ -				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -			0	$ -			0	$ -			0	$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -				$ -				$ -				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -				$ -				$ -				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -				$ -				$ -				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -				$ -				$ -				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -				$ -				$ -				$ -
	Building Items																		

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct (HST only)				At-Grade (HST only)				Covered Trench (HST only)				Tunnel (HST only)			
	Subsection 9 (a)		Base: 2009 (3rd Quarter)	A				A				A				A			
				Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Subsection Dedtails					Quant.	Cost			Quant.	Cost			Quant.	Cost			Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles		Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles		Start: 0 + 00		0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles		Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -				$ -				$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -			1	$ 15,000,000				$ -				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			0	$ -				$ -				$ -				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -				$ -			1	$ 15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -				$ -				$ -			0	$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -				$ -				$ -				$ -
4	Parking - Structures	space	$ -				$ -				$ -				$ -				$ -
5	Parking - At Grade	space	$ -				$ -				$ -				$ -				$ -
	Rail & Utility Relocation																		
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -				$ -				$ -				$ -
3	Single Track Removal	Mile	$ 130,048				$ -				$ -				$ -				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -				$ -				$ -				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -				$ -				$ -				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -				$ -				$ -				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -				$ -				$ -				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -				$ -				$ -				$ -
	ROW (Not Included)																		
	ROW required for each segment																		
1	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
2	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
3	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
4	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
5	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	ROW required for Temp. Construction Easement																		
1	Dense Urban	Acre					$ -				$ -				$ -				$ -
2	Urban	Acre					$ -				$ -				$ -				$ -
3	Dense Suburban	Acre					$ -				$ -				$ -				$ -
4	Suburban	Acre					$ -				$ -				$ -				$ -
5	Undeveloped	Acre					$ -				$ -				$ -				$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities																		
6	Dense Urban	Acre	$ 2,786,321				$ -				$ -				$ -				$ -
7	Urban	Acre	$ 1,371,510				$ -				$ -				$ -				$ -
8	Dense Suburban	Acre	$ 908,134				$ -				$ -				$ -				$ -
9	Suburban	Acre	$ 208,418				$ -				$ -				$ -				$ -
10	Undeveloped	Acre	$ 3,642				$ -				$ -				$ -				$ -
	Environmental Mitigation = 3% Line Costs						$ 2,736,314				$ 681,186				$ 11,131,300				$ 9,006,134
	System Elements																		
1	Signaling (ATC)	Mile	$ 2,070,000			2.27	$ 4,704,545			2.27	$ 4,704,545			2.27	$ 4,704,545			2.27	$ 4,704,545
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			2.27	$ 1,227,273			2.27	$ 1,227,273			2.27	$ 1,227,273			2.27	$ 1,227,273
3	Wayside Protection System	Mile	$ 108,000			2.27	$ 245,455			2.27	$ 245,455			2.27	$ 245,455			2.27	$ 245,455
	Electrification Items																		
1	Traction Power supply	Mile	$ 1,170,000			2.27	$ 2,659,091			2.27	$ 2,659,091			2.27	$ 2,659,091			2.27	$ 2,659,091
2	Traction Power Distribution	Mile	$ 1,485,000			2.27	$ 3,375,000			2.27	$ 3,375,000			2.27	$ 3,375,000			2.27	$ 3,375,000
	Subtotal						$ 106,158,161				$ 35,598,742				$ 394,385,994				$ 321,421,958
	Program Implementation Costs (per screening)						$ 27,070,331				$ 9,077,679				$ 100,568,428				$ 81,962,599
	Program Implementation Costs																		
	Contingencies (per screening) (25%)						$ 26,539,540				$ 8,899,685				$ 98,596,498				$ 80,355,489
	Subtotal						$ 159,768,033				$ 53,576,106				$ 593,550,921				$ 483,740,046
	Subtotal (Rounded)						$ 160,000,000				$ 54,000,000				$ 594,000,000				$ 484,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct			
	Subsection 9 (a)		Base: 2009 (3rd Quarter)	B			
				Start: 2760 + 00	End: 2808 + 00	0.91 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 2760 + 00	End: 2808 + 00	0.91 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.91	$ 4,272,873
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.00	$ -
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			7.16	$ 66,010
2	Total Cut	CY	$ 6.45			0	$ -
3	Total Fill	CY	$ 6.29			0	$ -
4	Borrow	CY	$ 12.58			0.00	$ -
5	Spoil	CY	$ 12.58			0.00	$ -
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 3,300
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0.91	$ 31,793,338
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408				$ -
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680			0	$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000				$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312				
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080			0	$ -
14	Trench Short	Mile	$ 78,843,904			0	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0	$ -
17	Retaining Walls	Mile	$ 8,613,888			0	$ -
18	Containment Walls	Mile	$ 5,907,456			0	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -
	Building Items						

	COST ELEMENTS	UNIT	UNIT PRICE	Elevated Viaduct			
	Subsection 9 (a)		Base: 2009 (3rd Quarter)	B			
				Start: 2760 + 00	End: 2808 + 00	0.91 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 2760 + 00	End: 2808 + 00	0.91 Miles	
	Double Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -
	Intermediate Passenger Stations (Diridon)	Each	$ 119,521,386			1	$ 119,521,386
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000			0	$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000				$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 4,669,707
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			0.91	$ 1,881,818
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.91	$ 490,909
3	Wayside Protection System	Mile	$ 108,000				
	Electrification Items					0.91	$ -
1	Traction Power supply	Mile	$ 1,170,000			0.91	$ 1,063,636
2	Traction Power Distribution	Mile	$ 1,485,000			0.91	$ 1,350,000
	Subtotal						$ 165,112,978
	Program Implementation Costs (per screening)						$ 42,103,809
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 41,278,245
	Subtotal						$ 248,495,032
	Subtotal (Rounded)						$ 248,000,000

Subsection 9(b)	9(b)A (2.3 miles)	9(b)B (0.9 miles)
	Deep Tunnel (HST Only)	Deep Tunnel (HST Only)
Capital Cost ($2009 in Millions) does not include ROW	$484 (2 tracks)	$383 (2 tracks)
Acquisition Cost of Permanent ROW	Lowest	Lowest
Notes:		1. HST San Jose station.

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 9(b)		Base: 2009 (3rd Quarter)	A			
				Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			2.27	$ 10,682,182
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -
2	Total Cut	CY	$ 6.45			977777.78	$ 6,307,840
3	Total Fill	CY	$ 6.29			0.00	$ -
4	Borrow	CY	$ 12.58			0.00	$ -
5	Spoil	CY	$ 12.58			977777.78	$ 12,300,288
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 930,406
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680				$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312			2.27	$ 242,357,527
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080				$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			2.27	$ 26,928,873
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000			0.00	$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624			0.00	$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520			0	$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -
	Building Items						

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 9(b)		Base: 2009 (3rd Quarter)	A			
				Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 2640 + 00	End: 2760 + 00	2.27 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000			0	$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 9,006,134
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			2.27	$ 4,704,545
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			2.27	$ 1,227,273
3	Wayside Protection System	Mile	$ 108,000			2.27	$ 245,455
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			2.27	$ 2,659,091
2	Traction Power Distribution	Mile	$ 1,485,000			2.27	$ 3,375,000
	Subtotal						$ 321,421,958
	Program Implementation Costs (per screening)						$ 81,962,599
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 80,355,489
	Subtotal						$ 483,740,046
	Subtotal (Rounded)						$ 484,000,000

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 9(b)		Base: 2009 (3rd Quarter)	B			
				Start: 2760 + 00	End: 2809 + 00	0.93 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 2760 + 00	End: 2809 + 00	0.93 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Section - Total						
1	Double Track Section - At Grade	Mile	$ 2,100,224			0.00	$ -
2	Double Track Section - On Structure	Mile	$ 4,700,160			0.00	$ -
3	Double Track Section - In Tunnel or Subway	Mile	$ 4,700,160			0.93	$ 4,361,891
4	Double Track Section - In Trench	Mile	$ 4,700,160			0.00	$ -
	Four Track Section - Total						
	Four-track Section - At Grade	Mile	$ 4,200,448			0.00	$ -
	Four-Track Section - On Structure	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Tunnel or Subway	Mile	$ 9,400,320			0.00	$ -
	Four-Track Section - In Trench	Mile	$ 9,400,320			0.00	$ -
	Single Track - Total						
5	Single Track Section - At Grade	Mile	$ 1,549,312			0	$ -
6	Single Track Section - On structure	Mile	$ 2,350,080			0	$ -
7	Single Track Section - In Tunnel or Subway	Mile	$ 2,350,080			0	$ -
8	Single Track Section - In Trench	Mile	$ 2,350,080			0	$ -
9	Freight Double Track - At Grade	Mile	$ 2,839,552			0	$ -
10	Freight Single Track - At Grade	Mile	$ 1,549,312			0	$ -
	Earthwork Items						
1	Site Preparation - Undeveloped	Acre	$ 9,216			0.00	$ -
2	Total Cut	CY	$ 6.45			399259.26	$ 2,575,701
3	Total Fill	CY	$ 6.29			0.00	$ -
4	Borrow	CY	$ 12.58			0.00	$ -
5	Spoil	CY	$ 12.58			399259.26	$ 5,022,618
6	Landscape erosion Control	Acre	$ 6,144			0.00	$ -
7	Security Fencing (Both sides of ROW)	Mile	$ 144,384			0.00	$ -
8	Special Drainage Facilities	5% Earthwork					$ 379,916
	Structures, Tunnels, Walls						
1	Standard Structure	Mile	$ 34,972,672			0	$ -
2	High Structure	Mile	$ 40,424,448				$ -
3	Long Span Structure	Mile	$ 61,919,232				$ -
4	Waterway Crossing - Primary	Mile	$ 85,342,208				$ -
5	Waterway Crossing - Secondary (Irrigation Canal)	Mile	$ 92,049,408			0.01	$ 697,344
6	Twin Single Track Drill&Blast (<6 Miles)	Mile	$ 142,731,264				$ -
7	Twin Single Track TBM (<6 Miles)	Mile	$ 106,637,312				$ -
8	Twin Single Track TBM w/3rd Tube (<6 Miles)	Mile	$ 176,720,896				$ -
9	Double Track Drill & Blast	Mile	$ 146,887,680				$ -
10	Double Track Mined (Soft Soil)	Mile	$ 79,200,000			0.00	$ -
	Double Track TBM (<6 Miles)	Mile	$ 106,637,312			0.93	$ 98,962,657
	Double Track TBM w/3rd Tube (>6 Miles)	Mile	$ 176,720,896				$ -
11	Seismic Chamber (Drill & Blast/Mined)	ea	$ 126,205,952				$ -
12	Crossovers	ea	$ 442,368				$ -
13	Cut & Cover Double Track Tunnel	Mile	$ 131,246,080				$ -
14	Trench Short	Mile	$ 78,843,904			0.00	$ -
15	Trench Long	Mile	$ 57,524,224				$ -
16	Mechanical & Electrical for Tunnels	Mile	$ 11,848,704			0.93	$ 10,995,956
17	Retaining Walls	Mile	$ 8,613,888			0.00	$ -
18	Containment Walls	Mile	$ 5,907,456			0.00	$ -
19	Single Track Cut and Cover Subway	Mile	$ 131,246,080				$ -
	Four Track Drill & Blast	Mile	$ 293,775,360				$ -
	Four Track Mined (Soft Soil)	Mile	$ 158,400,000				$ -
	Four Track TBM (<6 Miles)	Mile	$ 213,274,624				$ -
	Four Track TBM w/3rd Tube (>6 Miles)	Mile	$ 353,441,792				$ -
	Four Track Cut & Cover Tunnel	Mile	$ 262,492,160			0.00	$ -
	Grade Separations						
1	Roadway Crossing HSR - 4 Lane Roadway Under 2 Tracks (Urban)	ea	$ 13,284,352				$ -
	Roadway Crossing HSR - 4 Lane Roadway Under 4 Tracks (Urban)	ea	$ 19,926,528				$ -
2	Roadway Crossing HSR - 2 Lane Roadway Under 4 Tracks (Suburban)	ea	$ 2,759,680				$ -
3	Roadway Crossing HSR - 2 Lane Roadway Under 2 Tracks (Undeveloped)	ea	$ 2,029,568				$ -
4	Roadway Crossing HSR - 4 Lane Roadway Over 4 Tracks (Urban)	ea	$ 3,563,520				$ -
5	Roadway Crossing HSR - 4 Lane Roadway Over 2 Tracks (Suburban)	ea	$ 3,593,216				$ -
	Roadway Crossing HSR - 2 Lane Roadway Over 4 Tracks (Urban)	ea	$ 2,850,816				$ -
6	Roadway Crossing HSR - 2 Lane Roadway Over 2 Tracks (Undeveloped)	ea	$ 3,171,328				$ -
7	Street Bridging HSR Trench	ea	$ 1,398,784				$ -
8	Minor Crossing Closures	ea	$ 87,040				$ -
	Building Items						

	COST ELEMENTS	UNIT	UNIT PRICE	Tunnel (HST only)			
	Subsection 9(b)		Base: 2009 (3rd Quarter)	B			
				Start: 2760 + 00	End: 2809 + 00	0.93 Miles	
	Subsection Dedtails					Quant.	Cost
	Double Track At-Grade (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Double Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Double Track Tunnel (Mile)			Start: 2760 + 00	End: 2809 + 00	0.93 Miles	
	Double Track Trench (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Construction/Reconstruction At-Grade (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Elevated (Mile)			Start: 0 + 00		0.00 Miles	
	Four Track Tunnel (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
	Four Track Trench (Mile)			Start: 0 + 00	End: 0 + 00	0.00 Miles	
1	Intermediate Passenger Stations	Each	$ -				$ -
	Intermediate Passenger Stations (Diridon)	Each	$ 119,521,386			1	$ 119,521,386
2	Terminal Passenger Stations	Each	$ -				$ -
	Caltrain Passenger Station - At-Grade	Each	$15,000,000				$ -
	Caltrain Passenger Station - On Structure	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Tunnel or Subway	Each	$15,000,000				$ -
	Caltrain Passenger Station - In Trench	Each	$15,000,000			0	$ -
3	Maintenance Facility	Each	$ 123,921,884				$ -
4	Parking - Structures	space	$ -				$ -
5	Parking - At Grade	space	$ -				$ -
	Rail & Utility Relocation						
1	Single Track Relocation (Temporary)	Mile	$ 2,000,896				$ -
2	Single Track Relocation (Permanent)	Mile	$ 2,000,896				$ -
3	Single Track Removal	Mile	$ 130,048				$ -
4	Major Utility Relocations - Dense Urban	Mile	$ 1,548,288				$ -
5	Major Utility Relocations - Urban	Mile	$ 1,084,416				$ -
6	Major Utility Relocations - Dense Suburban	Mile	$ 775,168				$ -
7	Major Utility Relocations - Suburban	Mile	$ 464,896				$ -
8	Major Utility Relocations - Undeveloped	Mile	$ 30,720				$ -
	ROW (Not Included)						
	ROW required for each segment						
1	Dense Urban	Acre	$ 2,786,321				$ -
2	Urban	Acre	$ 1,371,510				$ -
3	Dense Suburban	Acre	$ 908,134				$ -
4	Suburban	Acre	$ 208,418				$ -
5	Undeveloped	Acre	$ 3,642				$ -
	ROW required for Temp. Construction Easement						
1	Dense Urban	Acre					$ -
2	Urban	Acre					$ -
3	Dense Suburban	Acre					$ -
4	Suburban	Acre					$ -
5	Undeveloped	Acre					$ -
	Right-of-Way Required for Stations, Maintenance & Parking Facilities						
6	Dense Urban	Acre	$ 2,786,321				$ -
7	Urban	Acre	$ 1,371,510				$ -
8	Dense Suburban	Acre	$ 908,134				$ -
9	Suburban	Acre	$ 208,418				$ -
10	Undeveloped	Acre	$ 3,642				$ -
	Environmental Mitigation = 3% Line Costs						$ 7,275,524
	System Elements						
1	Signaling (ATC)	Mile	$ 2,070,000			0.93	$ 1,921,023
2	Communications (w/ Fiber Optic Backbone)	Mile	$ 540,000			0.93	$ 501,136
3	Wayside Protection System	Mile	$ 108,000			0.93	$ 100,227
	Electrification Items						
1	Traction Power supply	Mile	$ 1,170,000			0.93	$ 1,085,795
2	Traction Power Distribution	Mile	$ 1,485,000			0.93	$ 1,378,125
	Subtotal						$ 254,779,300
	Program Implementation Costs (per screening)						$ 64,968,722
	Program Implementation Costs						
	Contingencies (per screening) (25%)						$ 63,694,825
	Subtotal						$ 383,442,847
	Subtotal (Rounded)						$ 383,000,000